

By Twei  
Pm

Access DB# 129811  
12

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Conrad DeWitte Examiner #: 800095 Date: 12/4/03  
Art Unit: 2673 Phone Number 305 8626 Serial Number: 10/044095  
Mail Box and Bldg/Room Location: PK116DR Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Ruggedized, Water sealed, Security Enhanced Touchpad Assembly  
Inventors (please provide full names): Siltex Peter Tuen

Earliest Priority Filing Date: Jan 18, 2001

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

1. I am looking for art to reject claims 11-21 (attached). Specifically I would like you to find something showing a protective outer shield for a touchpad (or display) connected to a PCB (see Fig. 3 attached).

2. ~~Any art that shows fitting the~~

by Twei

Thanks!

cash register  
or  
music  
at convenient  
price

Conrad

## STAFF USE ONLY

Type of Search		Vendors and cost where applicable
Searcher: <u>Samuel Ryzek</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>306-0255</u>	AA Sequence (#) _____	Dialog <input checked="" type="checkbox"/>
Searcher Location: <u>PC2 3C03</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>12-9-03 8:50 am</u>	Bibliographic <input checked="" type="checkbox"/>	Dr. Link _____
Date Completed: <u>12-9-03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

File 2:INSPEC 1969-2003/Nov W5  
(c) 2003 Institution of Electrical Engineers  
File 6:NTIS 1964-2003/Dec W1  
(c) 2003 NTIS, Intl Cpyrght All Rights Res  
File 8:Ei Compendex(R) 1970-2003/Nov W5  
(c) 2003 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2003/Nov W5  
(c) 2003 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2003/Oct  
(c) 2003 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2003/Dec W1  
(c) 2003 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2003/Dec W1  
(c)2003 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2003/Nov W4  
(c) 2003 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Oct  
(c) 2003 The HW Wilson Co.  
File 144:Pascal 1973-2003/Nov W5  
(c) 2003 INIST/CNRS  
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul  
(c) 2003, EBSCO Pub.  
File 239:Mathsci 1940-2003/Jan  
(c) 2003 American Mathematical Society  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning  
File 483:Newspaper Abs Daily 1986-2003/Dec 08  
(c) 2003 ProQuest Info&Learning  
File 248:PIRA 1975-2003/Dec W1  
(c) 2003 Pira International

? ds

Set	Items	Description
S1	41843	TOUCHPAD? OR TOUCH()PAD? OR KEYBOARD? OR KEY()BOARD?
S2	257	(SECURITY OR ANTILOCK OR ANTITHEFT OR ANTI-LOCK? OR ANTI-T-HEFT) (3N)CABLE??
S3	40567	PCBA OR PRINT?()CIRCUIT?()BOARD?
S4	1753	S1 AND (COVER? OR PLASTIC OR SEETHROUGH OR SEE-THROUGH OR -TRANSLUCENT? OR TRANSPARENT? OR SHIELD?)
S5	1489904	PROTECT? OR WATERPROOF OR WATER-PROOF OR RAINPROOF OR RAIN-PROOF OR WATER() (RESISTAN? OR REPEL? OR PROTECT?)
S6	5940290	LATCH? OR BAR OR MECHAN?
S7	15062	CASH()REGISTER? OR KIOSK? OR (VENDING OR DISPENSING OR DISPENSER) (3N) (MACHINE OR TERMINAL OR UNIT OR APPARATUS OR DEVICE? OR BOOTH? ?)
S8	320919	SEAL?? OR SEALING OR ADHESIVE OR GASKET?
S9	0	S2 AND S3 AND S1
S10	17	S1 AND S3 AND (COUPL? OR ATTACH? OR CONNECT?)
S11	12	S3 AND S4
S12	12	RD S11 (unique items)
S13	17	S10 NOT S11
S14	14	RD S13 (unique items)
S15	80	S4 AND S5
S16	10	S15 AND (S2 OR S6)
S17	10	S16 NOT (S10 OR S11)
S18	10	RD S17 (unique items)
S19	0	S2 AND S3 AND S8

S20	0	S2 AND S3
S21	4271	S3 AND S6
S22	1	S21 AND S7
S23	19	S1 AND (OVERLAY OR OVER()LAY OR COVER?) AND (TRANSLUCENT? -
		OR TRANSPAREN?)
S24	0	S23 AND S2
S25	19	S23 NOT (S16 OR S10 OR S11)
S26	17	RD S25 (unique items)
S27	18	S2 AND S6
S28	0	S27 AND S1
S29	0	S27 AND S7
S30	18	S27 NOT (S23 OR S16 OR S10 OR S11)
S31	15	RD S30 (unique items)

12/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02610850 INSPEC Abstract Number: A86027760, B86014833

**Title: Polymeric electronic materials**

Author(s): Sasabe, H.

Journal: Journal of the Society of Instrument and Control Engineers  
vol.24, no.6 p.508-13

Publication Date: June 1985 Country of Publication: Japan

CODEN: KESEA4 ISSN: 0453-4662

Language: Japanese

Subfile: A B

Abstract: In instrumentation, polymeric electronic materials are considered only for applications such as passive **plastic** cases, vinyl coating of wires, pressure sensitive rubber for pressure sensors or **keyboards** , or **printed circuit boards** . However, fairly active functions of polymeric electronic materials have been recently developed, for example, those...

12/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02092914 INSPEC Abstract Number: B83042846, C83030028

**Title: For the amateur photographer. Dark-room automat in digital technique**

Author(s): Birkenbihl, K.

Journal: Funkschau no.11 p.91-4

Publication Date: 27 May 1983 Country of Publication: West Germany

CODEN: FUSHA2 ISSN: 0016-2841

Language: German

Subfile: B C

...Abstract: stored by CMOS-instrumented circuits and then used to control exposures of the enlarger; these **cover** the range between 0.5 and 63.5 s in 0.5 s steps. **Touch pads** operate 6 sensor switches: measure automatically; set manually; expose by enlarger; reset the store; enlarger ...

... a dimensioned circuit diagram, using 6 ICs. As usual for the series, drawings of the **printed circuit board** (drilling and conductor template, components layout) are reproduced.

12/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02016788 INSPEC Abstract Number: B83017993, C83013506

**Title: Keyboard**

Author(s): Sulijoadikusumo, A.U.

Author Affiliation: BTL, Indianapolis, IN, USA

Journal: Technical Digest no.68 p.29

Publication Date: Oct. 1982 Country of Publication: USA

CODEN: TCHDAV ISSN: 0497-0411

Language: English

Subfile: B C

**Title:** Keyboard

**Abstract:** Describes a **keyboard** which comprises a baseplate on which is supported a **printed circuit board** having an array of contact surfaces. A rubber membrane, which has an array of snap action domes that conform to the array of contact surfaces is positioned on the **printed circuit board**. The center of each dome has a downwardly extending protrusion, the bottom surface of which is conductive. In addition, the domes themselves extend upwardly through openings in a static **shield** that rests on the membrane.

**Descriptors:** **keyboards** ;

**Identifiers:** **keyboard** ; ...

... **printed circuit board** ; ...

...static **shield**

12/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00855147 INSPEC Abstract Number: B76004428

**Title:** **Key switch for printed circuit boards**

**Assignee(s):** Addmaster Corp

**Patent Number:** GB 1400628 **Issue Date:** 750716

**Application Date:** 721023

**Priority Appl. Number:** US 191915 **Priority Appl. Date:** 711022

**Country of Publication:** UK

**Language:** English

**Subfile:** B

**Title:** **Key switch for printed circuit boards**

...**Abstract:** a toroidal spring. Each fixed contact is of partially annular shape with the innermost portion **covered** by the edge of an insulating bush which is secured to the panel. When the...

...**Descriptors:** **keyboards** ;

12/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00818973 INSPEC Abstract Number: B75039002

**Title:** **PW 'Easybuild' electronic organ. III**

**Author(s):** Hughes, M.J.

**Journal:** Practical Wireless vol.51, no.1 p.26-30, 33-4

**Publication Date:** May 1975 **Country of Publication:** UK

**CODEN:** PRWIBD **ISSN:** 0141-0857

**Language:** English

**Subfile:** B

...**Abstract:** pt.II see *ibid.*, vol.50, no. 12, p.1104-10 (April 1975). This part **covers** in detail the **keyboard** wiring and the testing of the main **printed circuit board**.

...**Descriptors:** **keyboards** ;

...**Identifiers:** **keyboard wiring**...

... **printed circuit board**

12/3,K/6 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

0435540 NTIS Accession Number: AD-777 008/4/XAB

**Advanced Development Model (Feasibility Type) Tactical Page Reader**

(Final rept. 1 Jun 71-31 Jul 73)

Fischer, W. ; Greenwald, S.

Control Data Corp Rockville Md Ocr Operations

Corp. Source Codes: 407339

Report No.: ECOM-0255-F-71

Aug 73 34p

Journal Announcement: GRAI7411

See also AD-750 613.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

The final report on the Tactical Page Reader **covers** work done during the entire course of the project. The report describes construction and adjustment...

... subassemblies and their operation are discussed. Error correction procedures and related hardware are described. The **keyboard** and Operator Control Panel are **covered** completely. The function of each item is described. The logical block diagram of the reader...

... detailed. The descriptions are given of the locations and functions of the various electronic parts. **Printed circuit boards** are all described as well as details of the power supplies. Also contained in this ...

12/3,K/7 (Item 1 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2003 FIZ TECHNIK. All rts. reserv.

00539271 E91120429200

**Polymer-Dickfilmtechnik. Bedrohung oder Herausforderung fuer den europaeischen Leiterplattenhersteller?**

(Polymer thick-film technology. Threat or challenge for the European **printed - circuit boards** manufacturer)

Weinhold, M

Du Pont de Nemours Int., CH

Elektronik Produktion und Prueftechnik, v64, n11, pp166-168,170, 1991

Document type: journal article Language: German

Record type: Abstract

ISSN: 0172-6250

(Polymer thick-film technology. Threat or challenge for the European **printed - circuit boards** manufacturer)

...DESCRIPTORS: ELECTRICAL; TEMPERATURE RESISTANCE; THROUGH HOLE PLATING; **KEYBOARDS** ; FILLER; **SHIELDING** ; THICK FILM RESISTORS; DRILL HOLES

12/3,K/8 (Item 1 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

09419064

PC price drop slow coming despite tariff removal

THAILAND: LOWER TARIFFS FOR COMPUTER PARTS

Bangkok Post (XBN) 29 Nov 2000 Database p.3

Language: ENGLISH

...applies to motherboards, circuit boards, hard disks, CD-ROM drives, RAM, monitors, floppy drives, cases, **keyboards**, power supplies, mouse and sound cards. PC assemblers say the move will bring down their...

PRODUCT: **Plastic** Industrial Products

12/3,K/9 (Item 2 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

09248643

Huan Hsin's net up 15% on pick-up in 2nd half

SINGAPORE: HUAN HSIN ANNOUNCES RESULTS

Business Times (XBA) 09 Mar 2000 p.7

Language: ENGLISH

... the second half. The firm makes wires and cables for the telecoms industry and moulded **plastic** products like mouse and **keyboards** for the consumer electronics and personal computer industries. Turnover jumped 8% to S\$ 79.2...

... and undertake cost-cutting measures to improve margins. The performance of associated firms engaged in **printed circuit board** manufacturing and surface mount technology assembly should improve in 2000.

PRODUCT: Nonferrous Wire Drawing **Printed Circuit Boards**

12/3,K/10 (Item 3 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

03090207

TORAY INDUSTRIES INTRODUCES PPS FILM

W GERMANY - TORAY INDUSTRIES INTRODUCES PPS FILM

Plastics World (PSW) 0 December 1989 p3

ISSN: 0032-1273

Toray Industries has introduced its Torelina PPS biaxially oriented film for use in **keyboard** membranes, microwave ovenable packaging, **printed circuit boards** and capacitors. The patented film is made from Phillip's Ryton resin, and is resistant...

PRODUCT: **Plastic** Film & Sheet

Industry: Packaging, **Plastic**

12/3,K/11 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2003 Pira International. All rts. reserv.

00376925 Pira Acc. Num.: 10383432 Pira Abstract Numbers: 08-94-PT00575

**Title: TOUCH MEMBRANE SWITCHES - SPECIAL EQUIPMENT**

Authors: Anon

Source: Screen Process vol. 43, no. 10, Oct. 1993, pp 17-18

ISSN: 0953-3338

Publication Year: 1993

Document Type: Journal Article

Language: English

...Abstract: tactile feedback with illuminated keys, Industrial Graphic Technology uses thermal embossing for the dome in **translucent** overlays. A light mounted below the **printed** circuit board or backing panel shines through the keypad. Littlemore Scientific Engineering's PH100 Hot Embosser improves...

... is advantageous for polyester. ZBF Mesh and Technology offers precision meshes for printing membrane switches, **printed circuit boards**, panels, resists, and solder masks. DuPont has introduced VAQS2CC, an environmentally-friendly liquid, photoimageable solder...

...Descriptors: **KEYBOARD** ; ...

... **TRANSLUCENT**

**12/3,K/12** (Item 2 from file: 248)

DIALOG(R) File 248:PIRA

(c) 2003 Pira International. All rts. reserv.

00145122 Pira Acc. Num.: 6920116 Pira Abstract Numbers: 02-86-01649

**Title: EXPANSION DESPITE TIGHTENING MARKET SITUATION IS NO UTOPIA**

Authors: Simon H

Source: Druck Print no. 4, 1986, pp 94, 96-97

ISSN: 0012-6462

Publication Year: 1986

Document Type: Journal Article

Language: German

...Abstract: printing is the best process for some printed products. It has been applied successfully to **printed circuit boards** and is being applied to the new field of 'keyboard film' printing. Specialists in the screen printing field are needed to evaluate the areas where...

...Descriptors: **PLASTIC FILM**...

... **KEYBOARD** ;

?



14/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

7177623 INSPEC Abstract Number: A2002-06-5255-013, B2002-03-8360-151,  
C2002-03-3340H-075

**Title: A universal portable appliance for stellarator W7-X power supply controlling**

Author(s): Xu Wei-hua; Wolfgang Foerster; Guenter Mueller

Author Affiliation: Inst. of Plasma Phys., Chinese Acad. of Sci., Hefei, China

Journal: Plasma Science & Technology vol.3, no.3 p.781-90

Publisher: Inst. Plasma Phys,

Publication Date: June 2001 Country of Publication: China

CODEN: PSTHC3 ISSN: 1009-0630

SICI: 1009-0630(200106)3:3L.781:UPAS;1-U

Material Identity Number: B439-2001-004

Language: English

Subfile: A B C

Copyright 2002, IEE

...Abstract: 7-X (W7-X), the popular field bus Profibus has been determined as a uniform **connection** between the central control system and all the subordinate systems. A universal embedded control system...

... microcontroller is used as the central control unit of the system. With a user-defined **printed circuit board** (PCB), several control buses, i.e., Profibus, CAN, IEEE 488, RS 485 and RS 232 have been **connected** to the microcontroller. The corresponding hardware interfaces for the control buses have been designed. A graphic liquid crystal display (LCD) and a user-defined **keyboard** are used as the user interface. The control software is developed with a C-like...

...Identifiers: user-defined **printed circuit board** ; ...

...user-defined **keyboard** ;

14/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

04024112 INSPEC Abstract Number: B91079825, C91069189

**Title: Sensing and guiding techniques for rubber**

Author(s): Corbett, J.S.

Author Affiliation: Erhardt & Leimer Inc., Rockford, IL, USA

Conference Title: IEEE Conference Record of 1991 Forty-Third Annual Conference of Electrical Engineering Problems in the Rubber and Plastics Industries (Cat. No.91CH3012-2) p.33-5

Publisher: IEEE, New York, NY, USA

Publication Date: 1991 Country of Publication: USA iii+75 pp.

ISBN: 0 7803 0069 6

U.S. Copyright Clearance Center Code: CH3012-2/91/0000-0033\$01.00

Conference Sponsor: IEEE

Conference Date: 15-16 April 1991 Conference Location: Akron, OH, USA

Language: English

Subfile: B C

...Abstract: a CCD line scan camera. Elcom uses a 19-in rack system for plug-in **printed circuit boards** . The system includes a special digital/analog bus that processes both analog and digital signals...

... circuit board containing an EPROM. Elcom 18 is capable of interactive communication. It can be **connected** via digital input and output boards or serial interface with **keyboards** and terminals, as well as other computer systems and PLCs. The data source for Elcom...

...Identifiers: plug-in **printed circuit boards** ;

14/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

03975137 INSPEC Abstract Number: B91066877, C91056640

**Title: Module for driving stepping motors**

Author(s): Lehmann, K.

Journal: Radio Fernsehen Elektronik vol.40, no.5 p.271-5

Publication Date: 1991 Country of Publication: West Germany

CODEN: RFELB6 ISSN: 0033-7900

Language: German

Subfile: B C

...Abstract: drive of stepping motors are explained, and hardware and software details of a double-sided **printed circuit board** module designed as a universal solution to the problem of driving two stepping motors are...

...single chip microprocessor UB 88640D in conjunction with program storage EPROM U 2732D, the module **connects** via serial standard interface to a master computer. Communication between the operator and module is achieved using an external **keyboard** and LED indicator unit. Two SPA 36/36-5300 motors were driven with stepping frequency...

...Identifiers: double-sided **printed circuit board** ; ...

... **keyboard** ;

14/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02942487 INSPEC Abstract Number: C87047363

**Title: Description of the hardware in the system 2000**

Author(s): Carreras, M.

Journal: Revista Espanola de Electronica no.387 p.96-101

Publication Date: Feb. 1987 Country of Publication: Spain

CODEN: RVEEBT ISSN: 0482-6396

Language: Spanish

Subfile: C

...Abstract: a personal processor or from a Hewlett Packard HP-1000. Contained in a DIN A4 **printed circuit board** it comprises an 8-bit Intel microprocessor 8085, 4 K bytes of EPROM storage, 4 kbytes of RAM storage, an interface **connection** 8155 to a processor into which the 8085 programs are loaded in machine language, input/output lines, two serial outputs, an interface 8255, a **keyboard** and display controller, and an expansion bus. The functions of each unit are discussed in...

...Identifiers: DIN A4 **printed circuit board** ;

14/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02387193 INSPEC Abstract Number: C85010559

**Title: The saga of keyboards -from mechanical to electronic**

Author(s): Buesen, J.

Journal: Revue Polytechnique no.10 p.1189, 1191, 1193

Publication Date: Oct. 1984 Country of Publication: Switzerland

CODEN: RVPTBR ISSN: 0374-4256

Language: French

Subfile: C

**Title: The saga of keyboards -from mechanical to electronic**

Abstract: The structure and function of pioneer typewriter **keyboards** (e.g. Remington, 1874) are compared with those of the electronic **keyboards** of today. Ergonomic aspects of design are overshadowed by considerations of complexity and cost. The...

...mentioned including both saturable-core and transformer matrix variants. An exploded drawing of the transformer **keyboard** shows how the moving ferrite cores modify the **coupling** between primary and secondary windings of transformers arranged in a row-and-column array on a **printed circuit board**, with intelligent coding by microprocessor and a roll-over function ensuring correct code transmission when...

...Descriptors: **keyboards** ;

...Identifiers: mechanical **keyboards** ; ...

...Hall effect **keyboards** ; ...

...capacitive **keyboards** ; ...

...inductive **keyboards** ; ...

...pioneer typewriter **keyboards** ; ...

...electronic **keyboards** ; ...

...transformer **keyboard** ; ...

... **printed circuit board** ;

14/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02375276 INSPEC Abstract Number: B85008644, C85007988

**Title: Greengate DS3 sound sampling system for Apple II/IIe**

Author(s): Ellis, D.

Journal: Electronics & Music Maker vol.4, no.8 p.92-4

Publication Date: Oct. 1984 Country of Publication: UK

CODEN: EMMAEO ISSN: 0268-6163

Language: English

Subfile: B C

Abstract: Reviews the DS3 sound sampling system. A **printed circuit board** (PCB) containing 19 ICs is plugged into one of the Apple's expansion socket. This...

... Apple's memory into four analogue output channels that go to an 'audio box' for **connection** to a mixing desk or Hi-Fi, and it scans a five octave

passive **keyboard** . The DS3's software is available on three disks, one (the system master) holding all...

...Identifiers: **keyboard** ;

**14/3,K/7** (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

01122024 INSPEC Abstract Number: B77040791, C77027030

**Title: An economic card type micro-computer**

Author(s): Diknine, E.

Journal: Electronique & Applications Industrielles no.234 p.71-3

Publication Date: 1 April 1977 Country of Publication: France

CODEN: EAINDQ ISSN: 0398-1851

Language: French

Subfile: B C

Abstract: The unit consists of a single **printed circuit board** comprising the microprocessor, two memory circuits with input/output **connections** and a time interval generator. A block schematic drawing is shown illustrating the complete assembly...

... specific features of the microprocessor and associated circuits are explained, including descriptions of the memories, **keyboard** and interface circuits for the teleprinter and tape recorder. The functional operations of the complete...

Identifiers: **printed circuit board** ; ...

... **keyboard** ;

**14/3,K/8** (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00773242 INSPEC Abstract Number: B75019229, C75015216

**Title: TTL IC serves as touch keyboard**

Author(s): Cockerell, D.

Author Affiliation: Electronic Music Studios Ltd., London, UK

Journal: Electronics vol.48, no.4 p.108-9

Publication Date: 20 Feb. 1975 Country of Publication: USA

CODEN: ELECAD ISSN: 0883-4989

Language: English

Subfile: B C

**Title: TTL IC serves as touch keyboard**

Abstract: The terminals of a TTL multiplexer IC can be used as a contactless **keyboard** to produce binary-coded output. The IC is mounted on a **printed - circuit board** , and its terminals are **connected** to finger-tip-size **touch pads** . During scanning of the 16 multiplexer inputs, which are actually NAND-gate terminals, a number...

Descriptors: **keyboards** ;

...Identifiers: touch **keyboard** ;

**14/3,K/9** (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00146459 INSPEC Abstract Number: C70011654

**Title: Mercutronic coding keyboard**

Journal: Telecommunications vol.3, no.12 p.36

Publication Date: Dec. 1969 Country of Publication: USA

CODEN: TLCOAY ISSN: 0040-2494

Language: English

Subfile: C

**Title: Mercutronic coding keyboard**

Abstract: ASCII Code is provided as standard output. The **keyboard** was the result of taking a mechanical approach to the solution of what had been ...

...sealed flexible tube) and encoding the data within the switch module has resulted in a **keyboard** with no **printed circuit boards** and no soldered **connections**.

Descriptors: **keyboards**

14/3,K/10 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

04064069 E.I. No: EIP95022562453

**Title: How to make connections a snap**

Author: Schofield, Julie Anne

Source: Design News (Boston) v 49 n 24 Dec 19 1994. p 57-58

Publication Year: 1994

CODEN: DIGNAO ISSN: 0011-9407

Language: English

**Title: How to make connections a snap**

Abstract: Three of the latest examples of electrical **connectors** - low-profile **connectors**, elastomeric **connectors**, and 2-mm high-speed **connector** assemblies - have helped engineers put together innovative products. These **connectors** can be found in a notebook computer, digital cellular phone, and automatic test equipment for microprocessors and memory chips. IBM's ThinkPad 755C color notebook, by design, required **connectors** with low stack heights to accommodate its compact size, and low mating forces to let...

...floppy and 2.5-in hard drives. IBM chose two AMP's CHAMP FH series **connectors**: a 60-position through-hole and a 100-position surface-mount **connector** for respective drives. Ericsson Mobile Communications, in designing its digital cellular phone, wanted a more cost-effective way to **connect** the microphone to the phone's main PC board. Ericsson turned to Elastomeric Technologies' custom elastomeric **connector** made of alternating layers of conductive, silver-impregnated silicone rubber. Lastly, Teradyne incorporated the 2...

Descriptors: Electric **connectors**; Product design; Hard disk storage; Soldering; User interfaces; Computer **keyboards**; Surface mount technology; Defects; **Printed circuit boards**; Electric insulators

Identifiers: Solderless **connector**

14/3,K/11 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

02888673 E.I. Monthly No: EI9004049040

**Title: Polymerdickfilmtechnologie: Kostenguenstige Erweiterung der konventionellen Leiterplattenherstellung.**

Title: Polymer thick film technology: economical solution adds to conventional **printed circuit board** production.

Author: Anderegg, Fredy; Gilgen, Heinz

Source: Technische Mitteilungen PTT (Post-, Telefon- und Telegrafienbetrieben) v 67 n 3 1989 p 108-113

Publication Year: 1989

CODEN: TMPTAJ ISSN: 0040-1471

Language: German

Title: Polymer thick film technology: economical solution adds to conventional **printed circuit board** production.

...Abstract: by hardening. This technology is useful for the production of rigid as well as flexible **printed circuit boards**. In the telecommunication industry, this process is completely new. The authors describe the new technology...

Identifiers: POLYMER THICK FILMS (PTF); PTF SIGNAL CONDUCTORS; PTF RESISTANCES; PTF **CONNECTIONS**; ELECTROCONDUCTIVE GLUEING OF CHIP COMPONENTS; **KEYBOARD** CONTACT PTF STRUCTURES

**14/3,K/12 (Item 3 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

02012781 E.I. Monthly No: EI8609085064 E.I. Yearly No: EI86059577

**Title: MEMBRANE SWITCHES ENDURE HARSH CONDITIONS**

Author: Harris, John

Corporate Source: Electronic Packaging & Production, Des Plaines, IL, USA

Source: Electronic Packaging and Production v 26 n 1 Jan 1986 p 158-161

Publication Year: 1986

CODEN: ELPPA5 ISSN: 0013-4945

Language: ENGLISH

...Abstract: is, contact is made (or broken) immediately after input is received to the circuit. Electrical **connections** are made directly on a **printed circuit board** of other electrical circuit without the use of springs, permitting applications utilizing this type of...

...membrane switches are being selected. These switches are often found in the form of a **keyboard**, perhaps part of a data entry system or other devices, such as a calculator. 2...

...Descriptors: **Keyboards**; MEMBRANES; ELECTRIC SWITCHES

**14/3,K/13 (Item 4 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

01935698 E.I. Monthly No: EI8601001476 E.I. Yearly No: EI86024638

**Title: ELECTRONICS SYSTEM FOR A TRANSPORTABLE PROFESSIONAL COMPUTER.**

Author: KEPLER, DAVID L.; ESPELAND, JAMES A.

Corporate Source: HEWLETT-PACKARD, CORVALLIS WORKSTATION OPERATION, CORVALLIS, OR, USA

Source: HEWLETT PACKARD J V 36 N 10 OCT 1985 P 6-9

Publication Year: 1985

CODEN: HPJOAX ISSN: 0018-1153

Language: ENGLISH

...Abstract: PC) IS DESCRIBED. ITS CPU, RAM, ROM, MEMORY MANAGEMENT, I/O BUFFERING, SYSTEM TIMING, AND **KEYBOARD** INTERFACE RESIDE ON ONE LOGIC BOARD, AND ALL OF THE OTHER PERIPHERAL CIRCUITRY (AND 14 **CONNECTORS** ) RESIDE ON ANOTHER BOARD. EACH BOARD IS SLIGHTLY SMALLER THAN A SHEET OF STATIONERY (78...

...OWN CLOCK CIRCUITRY FOR RELIABILITY AND EASE OF TESTING. AN I/O BOARD WITH TWO **CONNECTORS** FOR OPTIONAL PLUG-IN CARDS, A **KEYBOARD** INTERFACE BOARD WITH TWO **CONNECTORS** FOR HP HUMAN INTERFACE LINK (HP-HIL) INPUT DEVICES, AND THE POWER SUPPLY BOARD ARE THE OTHER **PRINTED CIRCUIT BOARDS** . 1 REF.

14/3,K/14 (Item 5 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

00334874 E.I. Monthly No: EI7312056870 E.I. Yearly No: EI73013292  
**Title: MATRIX SCANNING LOGIC FOR A CAPACITIVE SWITCHING KEYBOARD .**  
Author: Volpe, John W.  
Corporate Source: Raytheon Co, Quincy, Mass  
Source: Computer Design v 12 n 1 Jan 1973 p 84, 86, 88  
Publication Year: 1973  
CODEN: CMPDAM ISSN: 0010-4566  
Language: ENGLISH

**Title: MATRIX SCANNING LOGIC FOR A CAPACITIVE SWITCHING KEYBOARD .**  
Abstract: The CAPSCAN (Trademark) **keyboard** coding system utilizes a capacitive switch **coupled** with a scanning technique, and employs ac modulation in the rows of the scanning matrix...

...its inherent reliability and simplicity. Plates for the switch are an integral part of the **printed circuit board** . A scanning clock feeds a 6-bit counter which ripples through the 64 states. The...

...three of the four inputs of a BCD-to-decimal decoder; the fourth input is **connected** to the modulation clock, which must operate at a frequency substantially higher than the scanning...  
?

18/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

03057780 INSPEC Abstract Number: B88006102, C88005115

**Title: Prentice-Hall encyclopedia of information technology**

Author(s): Edmunds, R.A.

Publisher: Prentice-Hall, Englewood Cliffs, NJ, USA

Publication Date: 1987 Country of Publication: USA xv+590 pp.

ISBN: 0 13 695214 3

Language: English

Subfile: B C

Abstract: The book has over 150 cross-referenced topics **covering** every aspect of information technology. It deals not only with the technology itself, but stresses...

...micro-to-mainframe links, Codasyl, time sharing electronic spreadsheets, magnetic tape technology, communication networks, data **protection** and security, integrated data processing, software **protection**, office automation, batch processing, local area networks, **bar** code systems, **keyboards** and keypads, bypass technology, speech recognition, computer performance, open architecture, word processing, supercomputers, users groups...

...Identifiers: data **protection** and security...

...software **protection** ; ...

... **bar** code systems...

... **keyboards** ;

18/3,K/2 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

01589973 E.I. Monthly No: EI8411114831 E.I. Yearly No: EI84022790

**Title: CONTAMINATION SHIELDED RETRO-REFLECTIVE OVERLAY SENSOR.**

Author: Mathews, R. D.

Source: IBM Technical Disclosure Bulletin v 27 n 4A Sep 1984 p 2171-2172

Publication Year: 1984

CODEN: IBMTAA ISSN: 0018-8689

Language: ENGLISH

**Title: CONTAMINATION SHIELDED RETRO-REFLECTIVE OVERLAY SENSOR.**

Abstract: Encoded **keyboard** overlays usually require sensing to identify the overlay in place. Hall effect, reed, **mechanical** and optical switches have been employed for this purpose, with optical switches being the most ...

...reflectors. The present disclosure removes the photo source and sensor to an area which is **protected** from contamination and provides a **shield** for the overlay tabs or light interrupter portions which are to be sensed. This requires...

Identifiers: OVERLAY SENSOR; **KEYBOARD** OVERLAYS

18/3,K/3 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci



(c) 2003 Inst for Sci Info. All rts. reserv.

01544914 Genuine Article#: HG554 No. References: 7

**Title: IMPLEMENTATION OF THE STANDARD FOR SAFETY-RELATED SOLID-STATE CONTROLS FOR HOUSEHOLD ELECTRIC RANGES, UL-858A**

Author(s): STEINKE M

Corporate Source: UNDERWRITERS LABS INC, DEPT ELECT/NORTHBROOK//IL/60062

Journal: IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, 1992, V28, N1 (JAN-FEB), P239-250

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: state controls are generally more sensitive to physical and electrical environmental conditions than their electro- **mechanical** counterparts, and traditional test methods are inadequate to properly evaluate the reliability of solid-state...

...Ranges (UL 858A) was developed to address the unique properties of solid-state controls and **covers** oven temperature regulating, temperature limiting, self-cleaning (pyrolytic) oven door lock, and cooktop element control applications. UL 858A is concerned only with a control's safety or **protection** functions. This paper presents an overview of the requirements in UL 858A, with an emphasis...

...Electric Ranges (UL 858), which are applied to complete appliances employing solid-state controls, including **mechanical** endurance tests on membrane switch **keyboard** assemblies, environmental stress tests on the complete appliance, and shorted-thermostat abnormal operation tests.

18/3,K/4 (Item 1 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2003 FIZ TECHNIK. All rts. reserv.

01736223 20030401505

**Marktuebersicht: Elektromechanische Komponenten**

anonym

Electronic Embedded Systeme - Elektronik-Magazin fuer Chip-, Board- u. System-Design, v89, n4, pp20-24, 2003

Document type: journal article Language: German

Record type: Abstract

ISSN: 0943-4941

ABSTRACT:

Das Gehaeuse eines elektromechanischen Bauelementes als die Schutzhuelle der empfindlichen Elektronik und **Mechanik** hat mehrere Aufgaben zu erfuehlen: Neben der reinen Schutzwirkung vor unwirtlichen Umwelteinflussen wie Staub und...

DESCRIPTORS: ELECTROMAGNETIC **SHIELDING** ; ELECTROMAGNETIC INTERFERENCE; ELECTROMECHANICAL COMPONENTS; ELECTROMECHANICAL RELAYS; ELECTRONICS; ELECTRONIC COMPONENTS; ELECTRONICS ASSEMBLY; COMPUTER PROCESSING; ELECTRICAL ENGINEERING; LIGHT BARRIER; MARKET ANALYSIS; MARKET REVIEW; PRODUCT DEVELOPMENT; CONTACTOR; **PROTECTIVE** GEAR; **KEYBOARDS** ; CALIPER; ENVIRONMENTAL CARE; ENVIRONMENTAL POLLUTION; COUNTERS

18/3,K/5 (Item 2 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2003 FIZ TECHNIK. All rts. reserv.

01733746 20030307505

### **Electrifying opportunities**

(Elektrisierende Moeglichkeiten)

Seyam, AM

North Carolina State Univ. (NCSU), Raleigh, USA

Textile World, v153, n2, pp30-33, 2003

Document type: journal article Language: English

Record type: Abstract

ISSN: 0040-5213

#### **ABSTRACT:**

...such as pressure, temperature or electrical charge. Thermal clothing such as blankets and jackets that **protect** humans, pets and animals from cold weather, musical jackets and a flexible foldable computer keyboard are some electro-textile products that are commercially available today. Research and development targets civilian...

...that locates sources for sound, such as gunshots or enemy vehicle. Due to their excellent **mechanical** and physical properties, woven fabrics have established themselves in many different end-use products. Today...

...fabrics are used in countless civilian and military applications such as apparel, upholstery, rugs, vehicle **covers** etc. In addition, woven fabric structures can provide a complex network that can be used...

18/3,K/6 (Item 3 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2003 FIZ TECHNIK. All rts. reserv.

01726103 20030202416

**Marktuebersicht: Bedienen und Beobachten im explosionsgefaehrdeten Bereich**  
anonym

SPS Magazin, v16, n2, pp46-47, 2003

Document type: journal article Language: German

Record type: Abstract

ISSN: 0935-0187

#### **ABSTRACT:**

...oder II 2 G EEx ib IIC T4); ATEX-Kennzeichnung (ATmospheres Explosibles); Schutzart IP (International **Protection**) Front/gesamt (zum Beispiel IP65/IP20 oder IP66/IP66); Betriebstemperatur/erweitert in Grad C (zum...

...zwischen Ex-gefaehrdeten Bereich und sicheren Bereich LVDS (Low-Voltage Differential Signaling) ueber STP-Kabel ( **Shielded** Twisted Pair), Ethernet ueber STP-Kabel, TTY (TeleTYpe), Lichtwellenleiter, RS232 (Recommended Standard), HF-Datenleitung (Hochfrequenz...

...oder 65000 oder 1280 mal 1024/24-Bit oder 16000000); moeglicher eigensicherer Trackball; moegliches eigensicheres **Touchpad**; moegliches eigensicheres Touchscreen; moegliche Integrierbarkeit einer eigensicheren Barcode-Leseinheit; moegliche Integrierbarkeit eines Ex-RFID-Systems...

DESCRIPTORS: **BAR** CODE READERS; CONTROL PLATFORMS; OBSERVATION DEVICES; OPERATING TEMPERATURE; DISPLAYS; ELECTRONIC BALANCES; EXPLOSION **PROTECTION**; GRAPHICAL DISPLAY; MANUFACTURER; INDUSTRIAL PC; CHARACTERIZATION; OPTICAL WAVEGUIDES; MARKET REVIEW; PRICE; PRODUCT COMPARISONS; TFT...

...IDENTIFIERS: INTERNATIONAL **PROTECTION** ); LVDS...

... **SHIELDED** TWISTED PAIR); TTY...

...RECOMMENDED STANDARD); TEXT DISPLAY; TRACKBALL; **TOUCHPAD**; RFID

18/3,K/7 (Item 4 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
(c) 2003 FIZ TECHNIK. All rts. reserv.

01241325 T98106003124

**UNICA-solutions without compromises**

(UNICA-Loesungen ohne Kompromisse)

anonym

Reggiani Machine, I

Pakistan Textile Journal, v47, n7, pp54-55, 1998

Document type: journal article Language: English

Record type: Abstract

**ABSTRACT:**

...frames and other parts made of aluminium and cast iron underwent a phosphate treatment. All **mechanical** transmissions and screen drives are placed inside the machine and are **protected** by steel **covers** to avoid contact with chemicals. An unique system takes water out from the blanket and...

...be used. The control and diagnosis are available by touch screen, positioned on the main **keyboard**. The quality of the print is reached by individual screen drive, bilateral screen drive at...

18/3,K/8 (Item 5 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
(c) 2003 FIZ TECHNIK. All rts. reserv.

00978650 E96031632211

**Abgeschirmte Handgehaeuse**

Balzer, A

Elektronik Journal, v31, n3, pp48-49, 1996

Document type: journal article Language: German

Record type: Abstract

ISSN: 0013-5674

**ABSTRACT:**

...Aluminiumbedampfung. Die Aluminiumbedampfung bietet bei fast allen Kunststoffen eine gleichmaessig gute Haftung und Langzeitstabilitaet. Die **mechanischen** Eigenschaften der Kunststoffe werden nicht veraendert. Stoerstrahlempfindliche Bauteile oder die gesamte Elektronik koennen mit einer...

DESCRIPTORS: PLASTICS CASES; ELECTRIC **SHIELDING** ; MAGNETIC **SHIELDING** ; ELECTROMAGNETIC COMPATIBILITY; LACQUERING; COPPER; LACQUER; FREQUENCY RANGES; **MECHANICAL** PROPERTIES; SPURIOUS RADIATION; ELECTRONICS; ASSEMBLIES...

...BUILDING BLOCKS; **PROTECTION** TYPES; **KEYBOARDS** ; ELECTROMAGNETIC INTERFERENCE

18/3,K/9 (Item 6 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
(c) 2003 FIZ TECHNIK. All rts. reserv.

00939008 E95126256200

**Aufbau und Funktion von Folientastaturen. Uebersicht und Auswahlhilfe**

(About the design and functional principles of flat **keyboards** )  
Riedel, H-H  
Danielson Nederland B.V., Amersfort, NL  
Elektro Automation, v48, n11, pp36,39, 1995  
Document type: journal article Language: German  
Record type: Abstract  
ISSN: 0013-5518

(About the design and functional principles of flat **keyboards** )

ABSTRACT:

...vorgestellt. Dabei wird vor allem auf die Produkte der Firma Danielson eingegangen. Vorgestellt werden der **mechanische** Aufbau, der elektronische Aufbau, die Einbindung in Schaltungen, die Kapselung, die Sicherheitsmassnahmen und die taktile...

DESCRIPTORS: **KEYBOARDS** ; ELECTROMECHANICAL COMPONENTS; DATA INPUT; DUST **SHIELD** ; MOISTURE PROOFING; **PROTECTIVE** MEASURE; **PROTECTION** TYPES; STANDARDISATION; DIN STANDARDS; PLASTICS FOILS; PRODUCT INFORMATION; MARKET REVIEW; BEHAVIOUR...

18/3,K/10 (Item 1 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003, EBSCO Pub. All rts. reserv.

00322177 93PK08-311

**DTR notebook: Power in a shrunken package -- But Dauphin's unit may not cut it as desktop replacement**

Coffee, Peter

PC WEEK , August 23, 1993 , v10 n33 p118, 120, 2 Page(s)

ISSN: 0740-1604

Company Name: Dauphin Technology

Product Name: Dauphin DTR-1

... Lombard, IL (800, 708). Says the DTR-1 features a pen-sensitive VGA display, a **protective cover** , a carrying case, a portable **keyboard** , a fold-out stand, a 40MB hard drive, Windows for Pen Computing, aggressive power management...

... inch floppy drive, a 486SLC chip running at 25MHz, and 4MB of RAM; but the **keyboard** was too lightweight and crowded for fast typing, and the power adapter got very hot under extended operation. Given a rating of 3.2 points. Includes a photo, several **bar** graphs, and a score card. (tbc)  
?

22/3,K/1 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

01499004 E.I. Monthly No: EI8403025543 E.I. Yearly No: EI84101196

**Title: CHIP PLACEMENT SYSTEM.**

Author: Temadani, Eiiji

Corporate Source: Matsushita Industrial Equipment Co, Production Engineering Lab, Osaka, Jpn

Source: Natl Tech Rep Matsushita Electr Ind v 29 n 4 Aug 1983 p 38-46

Publication Year: 1983

CODEN: NTROAV ISSN: 0028-0291

Language: JAPANESE

...Abstract: the chip component standard is applied. New adhesive material is introduced, including the newly designed **dispensing** and curing **devices**. Various placement methods are evaluated leading to the introduction of a unique pick and place system with centering **mechanism**. The use of a dual soldering method to assure reliable soldering of high-density **printed circuit board** is also reported. In Japanese with English abstract.

?

26/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

03620389 INSPEC Abstract Number: D90001324

**Title: Data in the districts (portable data equipment for nurses)**

Author(s): Percival, M.; Westcott, J.

Author Affiliation: Kettering Health Authority, UK

Journal: Health Service Journal vol.100, no.5188 p.255-6

Publication Date: 15 Feb. 1990 Country of Publication: UK

CODEN: HSJOEO ISSN: 0952-2271

Language: English

Subfile: D

...Abstract: community system, which runs on a Convergent Technology S640 minicomputer. The barcodes are placed in **transparent covers** and carried by the nurses in a hard- back folder. Each nurse has access to...

... simple procedure to download the information from the Datapen and requires no detailed computer or **keyboard** skills.

26/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02852968 INSPEC Abstract Number: C87026226

**Title: Design of a general-purpose- transparent -input-output system for the application in multi-configuration machinery-space simulators**

Author(s): Anderson, B.

University: Univ. Wales, Swansea, UK

Dissertation Date: 1986

Country of Publication: UK

Language: English

Subfile: C

**Title: Design of a general-purpose- transparent -input-output system for the application in multi-configuration machinery-space simulators**

...Abstract: complex equipment, and a portable hardware debugging facility for this purpose is discussed. Other aspects **covered** include a synchroscope and an action **keyboard**. The former is a microprocessor-controlled synchronising facility, used within the electrical generation simulator and modelled to assist the paralleling of alternators. The latter is a microprocessor-controlled peripheral **keyboard** used by students when responding to system faults, initiated by instructors during a training exercise...

...Identifiers: action **keyboard** ; ...

...peripheral **keyboard** ;

26/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02342905 INSPEC Abstract Number: B84061246, C84048693

**Title: Control panels: from pushbuttons to keyboards to touchscreens**

Author(s): Flynn, W.R.

Journal: Control Engineering vol.31, no.6 p.79-81

Publication Date: June 1984 Country of Publication: USA

CODEN: CENGAX ISSN: 0010-8049  
Language: English  
Subfile: B C

**Title: Control panels: from pushbuttons to keyboards to touchscreens**

...Abstract: larger systems. The more usual input device with CRT terminals is now some form of **keyboard** -ranging from a more-or-less standard typewriter board with numeric keypad to customized versions with programmable function keys. Membrane switches provide spill-proof **keyboards** and **transparent** versions **cover** CRT screens to marry programmable display and function selection in touch-screen systems. And now...

...Descriptors: **keyboards** ;  
...Identifiers: **keyboards** ; ...

...spill-proof **keyboards** ;

26/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

01888636 INSPEC Abstract Number: A82064560, C82026408

**Title: Touch-sensitive colour graphics enhance monitoring of loss-of-coolant accident tests**

Author(s): Snedden, M.D.; Mead, G.L.

Author Affiliation: AECL Res. Co., Chalk River Nuclear Labs., Chalk River, Ont., Canada

Journal: IEEE Transactions on Nuclear Science vol.ns-29, no.1 p. 642-5

Publication Date: Feb. 1982 Country of Publication: USA

CODEN: IETNAE ISSN: 0018-9499

Conference Title: 1981 Nuclear Science Symposium and the 1981 Symposium on Nuclear Power Systems

Conference Sponsor: IEEE; EPRI; Lawrence Berkeley Lab.; et al

Conference Date: 21-23 Oct. 1981 Conference Location: San Francisco, CA, USA

Language: English

Subfile: A C

...Abstract: pictures generated by the terminal. Experimenters select system functions by touching simulated switches on a **transparent** touch-sensitive **overlay** , mounted directly over the face of the colour screen, eliminating the need for a **keyboard** . Switch labels and colours are changed on the screen by the terminal software as different...

26/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00860110 INSPEC Abstract Number: C76004969

**Title: Hand calculator has electronic functional units**

Assignee(s): Sharp KK

Patent Number: GB 1405048 Issue Date: 750903

Application Date: 731005

Priority Appl. Number: JP 47-100996 Priority Appl. Date: 721006

Country of Publication: UK

Language: English

Subfile: C

Abstract: The calculator consists of a **keyboard** unit, computing circuit and display unit all mounted on a supporting dielectric substrate. The fixed...

... the substrate, with a layer of liquid crystal material over the electrode patterns and a **transparent cover** over the unit.

...Descriptors: **keyboards** ;

...Identifiers: **keyboard** unit

26/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00819041 INSPEC Abstract Number: B75039075, C75021033

**Title: Touch keyboard using liquid crystal material**

Author(s): Nassimbene, E.G.

Author Affiliation: IBM, Armonk, NY, USA

Journal: IBM Technical Disclosure Bulletin vol.18, no.7 p.231-2

Publication Date: June 1975 Country of Publication: USA

CODEN: IBMTAA ISSN: 0018-8689

Language: English

Subfile: B C

**Title: Touch keyboard using liquid crystal material**

Abstract: This arrangement provides a low-cost **transparent keyboard** for applications ranging from a full bank **keyboard**, to a cathode-ray tube **overlay**, to an input 'steering-tablet' for the blind.

Descriptors: **keyboards** ;

...Identifiers: **transparent keyboard** ; ...

...full bank **keyboard** ; ...

...CRT **overlay** ;

26/3,K/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

00628389 INSPEC Abstract Number: B74016924, C74010138

**Title: Touch control of interactive checkout procedures**

Author(s): Giedt, D.W.

Author Affiliation: McDonnell Douglas Astronautics Co., Huntington Beach, CA, USA

Conference Title: ASSC 73 Symposium Record p.88-91

Publisher: IEEE, New York, NY, USA

Publication Date: 1973 Country of Publication: USA 160 pp.

Conference Sponsor: IEEE

Conference Date: 5-6 Nov. 1973 Conference Location: Arlington, TX, USA

Language: English

Subfile: A B C

Abstract: A programmable **keyboard** -display interactive terminal is described which utilizes a plasma panel display, overlaid with a 4\*4 matrix of **transparent** pressure-activated switches. In effect, this provides the supporting application program with the capability to...

...the terminal. This capability facilitates selection from tree-structured



alternative lists or 'menus.' The display **overlay** switches of this terminal make it ideal for interactive control of arbitrarily complex procedures. A...

...Identifiers: programmable **keyboard** display interactive terminal...

26/3,K/8 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1299758 NTIS Accession Number: N87-19427/0

**Display of Telemetry Data with Video Imagery: The Alphagraph**

Beattie, J. A. C.

Royal Aircraft Establishment, Farnborough (England).

Corp. Source Codes: 013778000; R2785060

Sponsor: National Aeronautics and Space Administration, Washington, DC.

Report No.: RAE-TM-RAD-NAV-276; BR99937

Jan 86 14p

Languages: English

Journal Announcement: GRAI8714; STAR2512

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A02/MF A01

...takes in data from various sources, via three input ports, and formats it onto an **overlay** bit plane. The data from the **overlay** bit plane is then mixed with the incoming video to provide a composite image for display on the monitor. The **overlay** bit plane data controls a video switch with programmable output levels from black to white, plus a state in which it is **transparent** to the incoming video. Control of the **overlay** formatting, and of the operation of the system is made through a touch panel **key board** mounted on the front of the Alphagraph. It is built into a self contained 19 in. racking unit, 5U high, with the **key board** mounted vertically. All input and output ports are mounted on the rear of the unit.

26/3,K/9 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

03505600 E.I. Monthly No: EI9211137785

**Title: Matsushita covers switch field with extensive lineup.**

Author: Anon

Source: JEE, Journal of Electronic Engineering v 29 n 307 Jul 1992 p 66-67

Publication Year: 1992

CODEN: JEENDL ISSN: 0385-4507

Language: English

**Title: Matsushita covers switch field with extensive lineup.**

Abstract: Matsushita Electronic Components supplies a full switch lineup ranging from full **keyboard** models and items for remote controllers to **transparent** touch panels. Matsushita recently added Type 5 detector switches and slide switches to its lineup of models accommodating radial tapping processes. Among full **keyboard** switches, Matsushita concentrates on the thin ESU50 series for use in office automation (OA) equipment...

Identifiers: FULL **KEYBOARD** MODELS; **TRANSPARENT** TOUCH PANELS

26/3,K/10 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2003 Japan Science and Tech Corp(JST). All rts. reserv.

01283644 JICST ACCESSION NUMBER: 91A0291388 FILE SEGMENT: JICST-E

**Evaluation of the new automatic perimeter "digilab model 750".**

KOJIMA TOMOE (1); NUKINA KAE (1); FUNABIKI MASAKO (1); WANG Y (1); KANI KAZUTAKA (1)

(1) Shiga Univ. of Medical Science

Nippon Ganka Kiyo(Folia Ophthalmologica Japonica), 1990, VOL.41,NO.12, PAGE.2304-2309, FIG.5, TBL.2, REF.6

JOURNAL NUMBER: Z0319BAJ ISSN NO: 0015-5667

UNIVERSAL DECIMAL CLASSIFICATION: 617.7-07

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: stimuli are produced by 310 light-emitting diodes (LEDs), mounted on a hemispherical dome and **covered** by a white, **translucent** film, making them invisible when not lighted. The Model 750 has the large memory capacity...

...The disadvantages of the system are that instructions are entirely in English and that a **keyboard** must be used for all commands. Visual field testing, using the threshold program, showed a...

26/3,K/11 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

(c) 2003 The HW Wilson Co. All rts. reserv.

2213983 H.W. WILSON RECORD NUMBER: BAST00069364

**Laptops and notepads - the arrival of the second display**

Neale, Ron;

Electronic Engineering v. 72 no885 (Oct. 2000) p. 9-10

DOCUMENT TYPE: Feature Article ISSN: 0013-4902

ABSTRACT: The new ClearPad touch technology from Synaptics Incorporated turns the **touch pad** pointing device used in laptops and notepads into a second display. The ClearPad is a thin, flexible **transparent** membrane **covering** an LCD or light emitting device. Apart from operating as a capacitive touch sensor, the...

26/3,K/12 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003, EBSCO Pub. All rts. reserv.

00264269 92PY01-009

**Model T keyboard cover shootout -- Turtle Shell vs. Dyna-Shield: How do they compare?**

Liddil, Bob

Portable 100 , January 1, 1992 , v9 n1 p29, 1 Page(s)

ISSN: 0888-0131

Company Name: Dyna-Shield; Club 100

Product Name: Dura-Shield Hard **Cover** ; Club 100 Turtle Shell

**Model T keyboard cover shootout -- Turtle Shell vs. Dyna-Shield: How**

do they compare?

Product Name: Dura-Shield Hard **Cover** ; Club 100 Turtle Shell  
Presents favorable reviews of Dyna-Shield Hard **Cover** (\$22.95) and Club 100 Turtle Shell (\$14.95), two hard-surface **covers** for Tandy Model 100/102 machines, from Dyna-Shield of Peterborough, NH and Pleasant Hill, CA, respectively. Says Dyna-Shield is a **transparent** case that withstands impact loads of 200 pounds, while Club 100 is finished in an...

Identifiers: Dura-Shield Hard **Cover** ; Club 100 Turtle Shell;  
Dyna-Shield; Club 100

26/3,K/13 (Item 1 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

(c) 2003 ProQuest Info&Learning. All rts. reserv.

06565647 SUPPLIER NUMBER: 79411138

**As Work and Life Blur, Office Furniture Goes 24/7**

Gordon, Alastair

New York Times, p 10.

Sep 2, 2001

ISSN: 0362-4331

NEWSPAPER CODE: NYT

; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: airplane interiors and camping equipment, the podlike A3 unit is made from tubular steel framing **covered** with stretchy mesh fabric. It wraps around the office worker with womblike curves. While providing some privacy, the A3's **translucent** envelope provides a sense of visual continuity. The A3 can be used alone in an...

...designer, has created a bed that has a computer screen in the mattress and a **keyboard** in the pillow. (Michael Moran)

26/3,K/14 (Item 2 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

(c) 2003 ProQuest Info&Learning. All rts. reserv.

06557699 SUPPLIER NUMBER: 79094888

**Laptops That Take A Licking**

Pogue, David

New York Times, p G.1

Aug 30, 2001

ISSN: 0362-4331

NEWSPAPER CODE: NYT

DOCUMENT TYPE: Product Review-Comparative; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: gel-mounted hard drives, doors to protect the connectors and a watertight seal under the **keyboard**. On ordinary laptops, the screen, which contains glass, is by far the most vulnerable component...

...with gloved hands; Itronix laptops like the GoBook even include a glow-in-the-dark **keyboard**. What's rugged about the XE-620 is the rubber sheet that cushions the hard drive, the magnesium case, an anti-glare screen coating and a **transparent** sheet of thin, **transparent** vinyl that **covers** the entire lower surface of the machine -- **keyboard**, speakers, trackpad and all. While you don't dare use semiruggeds in the rain (as you can with fully ruggedized models), you're cleared to spill a drink on the **keyboard** (the second most common cause of laptop failure, IDC says, after dropping). If it's...

26/3,K/15 (Item 3 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

(c) 2003 ProQuest Info&Learning. All rts. reserv.

06532851 SUPPLIER NUMBER: 75504182

**Arts: What - no two-ton revolving drum kit?: Emerson, Lake and Palmer were the original prog rockers - an orgy of bells, gongs, synths and lasers.**

**Now drummer Carl Palmer is back on the road. By Jonathan Glancey**

Glancey, Jonathan

Guardian, p 16

Jul 18, 2001.

ISSN: 0261-3077

NEWSPAPER CODE: MG

; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: that had all but exhausted itself by the time the Sex Pistols hit the spit- **covered** London stage 25 years ago? No - it was Carl Palmer, the dazzlingly fast, virtuoso drummer...

...20, he joined ELP, rocking up the classics with Keith Emerson, the disarmingly softly-spoken **keyboards** wizard from the Nice, and indulging in dragons-and-dungeons songs with Greg Lake, the...

...bells, beaten synthesisers, complex time changes and laser lights. Two-and-a-half tons of **transparent** kit revolving under its own illuminated arch.

26/3,K/16 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2003 Pira International.. All rts. reserv.

00301238 Pira Acc. Num.: 10188773 Pira Abstract Numbers: 08-92-PT00183

**Title: COVERED KEYBOARD RESISTS DUST**

Authors: Anon

Source: Polym. Paint Colour J. vol. 181, no. 4291, 18 Sept. 1991, p. 549

ISSN: 0370-1158

Publication Year: 1991

Document Type: Journal Article

Language: English

**Title: COVERED KEYBOARD RESISTS DUST**

Abstract: The Armagard **Keyboard** from Intek is described. It is designed for shopfloor use in the chemicals, plastics, rubber...

... to IP65 standards. The keys and the gaps between them are also sealed with a **transparent** flexible polyurethane **overlay**, which is moulded to the shape of each key. The **overlay** is guaranteed for two years and can be replaced. It is fitted from within the...

... almost undetectable due to the tight fit onto the keys. In such environments, ordinary computer **keyboards** can become clogged up and unreliable. Membrane units have less feel and can be difficult...

...Descriptors: **KEYBOARD** ; ...

... **OVERLAY** ; ...

... **TRANSPARENT** ;

26/3,K/17 (Item 2 from file: 248)  
DIALOG(R)File 248:PIRA  
(c) 2003 Pira International. All rts. reserv.

00153950 Pira Acc. Num.: 7321779 Pira Abstract Numbers: 02-87-00327

**Title: KODAK INTRODUCES 1392 PRINTER**

Authors: Anon

Source: In-Plant Reprod. Electron. Publ. vol. 36, no. 10, Oct. 1986, p. 19

ISSN: 0886-3121

Publication Year: 1986

Document Type: Journal Article

Language: English

...Abstract: reach \$3m by 1990. With KEEPS, users can output on-demand documentation without leaving the **keyboard**. Optional finishing devices permit stapling, binding and stacking at full mainframe speed. The 1392 offers a variety of typefaces, single pass duplexing, a four foot paper path, slipsheeting, **cover** insertion and **transparencies** processing and handles 16 to 110 paper from 8 x 10 in to 8.5...

...Descriptors: **COVER** ; ...

... **KEYBOARD** ; ...

... **TRANSPARENCY** ;

?

31/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

7523370 INSPEC Abstract Number: B2003-03-6430D-003, C2003-03-6130S-069

**Title: CATV security architecture**

Author(s): Volner, R.

Author Affiliation: Inst. for BioMedical Eng., Czech Tech. Univ., Prague, Czech Republic

Conference Title: Proceedings IEEE 36th Annual 2002 International Carnahan Conference on Security Technology (Cat. No.02CH37348) p.209-15

Editor(s): Sanson, L.D.

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2002 Country of Publication: USA 233 pp.

ISBN: 0 7803 7436 3 Material Identity Number: XX-2002-03403

U.S. Copyright Clearance Center Code: 0-7803-7436-3/02/\$17.00

Conference Title: Proceedings IEEE 36th Annual 2002 International Carnahan Conference on Security Technology

Conference Sponsor: IEEE Lexington Sect., USA; IEEE Aerosp. & Electron. Syst. Soc. USA; Chung Shan Inst. Sci. & Technol., Taiwan, ROC; Nat. Chiao-Tung Univ. Taiwan, ROC

Conference Date: 20-24 Oct. 2002 Conference Location: Atlantic City, NJ, USA

Language: English

Subfile: B C

Copyright 2003, IEE

...Abstract: limitations and possibilities for an integration use of both have to be understood. The CATV ( **cable** television) **security** architecture provides a general description of security services and related **mechanisms** , and discusses their interrelationships. It also shows how the security services map onto a given...

... and overview the security services that are enumerated in the CATV security architecture, corresponding security **mechanisms** , and security management.

31/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6352634 INSPEC Abstract Number: B1999-10-6210L-130, C1999-10-5620L-026

**Title: Security challenges of cable data networks**

Author(s): Legault, B.G.; Patrick, M.W.

Author Affiliation: Motorola, Mansfield, MA, USA

Conference Title: Core Networks and Network Management. NOC '99. Proceedings of the European Conference on Networks and Optical Communications 1999. (NOC'99) p.195-6

Editor(s): Faulkner, D.W.; Harmer, A.L.

Publisher: IOS Press, Amsterdam, Netherlands

Publication Date: 1999 Country of Publication: Netherlands viii+348 pp.

ISBN: 90 5199 497 4 Material Identity Number: XX-1999-02232

Conference Title: Core Networks and Network Management. NOC'99. Proceedings of the European Conference on Networks and Optical Communications 1999. (NOC'99)

Conference Date: 22-24 June 1999 Conference Location: Netherlands

Language: English

Subfile: B C

Copyright 1999, IEE

**Title:** Security challenges of cable data networks

...Abstract: of broadcast LAN. While some cable modem termination system (CMTS) equipment vendors have added proprietary mechanisms to address some of these issues, most have not.

31/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

4568690 INSPEC Abstract Number: B9402-8130F-011

**Title: Testing of vibration dampers for overhead transmission line conductors in the laboratory**

Author(s): Buckner, W.F.; Mouchard, P.; Thomas, R.; Wekenborg, H.

Journal: Elektrizitaetswirtschaft vol.92, no.20 p.1204-8

Publication Date: 20 Sept. 1993 Country of Publication: West Germany

CODEN: EKZWAZ ISSN: 0013-5496

Language: German

Subfile: B

...Abstract: conductors, a reliable method for determining the effectiveness of the damper as regards the operating security of the power cables assumes importance. The authors describe experimental tests with Stockbridge and Bretelle dampers and present the...

...Descriptors: overhead line mechanical characteristics...

...Identifiers: mechanical characteristics

31/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02799333 INSPEC Abstract Number: B87008291

**Title: Secure splice closures for optical fiber systems**

Author(s): Spencer, H.J.C.

Journal: IEEE Journal on Selected Areas in Communications vol.SAC-4, no.5 p.726-31

Publication Date: Aug. 1986 Country of Publication: USA

CODEN: ISACEM ISSN: 0733-8716

U.S. Copyright Clearance Center Code: 0733-8716/86/0800-0726\$01.00

Language: English

Subfile: B

...Abstract: fiber cable systems are reviewed. It is concluded that for long haul point to point cables, absolute security is paramount, and that for these, welded splice closures should be used. For optical fiber...

... easily be reentered are needed. This requirement can only be met with some kind of mechanical closure. The security of these is considered inadequate for nonpressurized optical fiber networks. It is concluded that the use of mechanical closures must be supported by a satisfactory test method to confirm that they are sealed...

...Identifiers: mechanical closure

31/3,K/5 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1018085 NTIS Accession Number: AD-D010 033/9

**Releasable Cable Connector Assembly for Use between a Mobile and Stationary Object**

(Patent Application)

Fowler, O. V.

Department of the Air Force, Washington, DC.

Corp. Source Codes: 000260000; 109850

Report No.: PAT-APPL-6-445 887

Filed 1 Dec 82 26p

Languages: English Document Type: Patent

Journal Announcement: GRAI8312

This Government-owned invention available for U.S. licensing and, possibly, for foreign licensing. Copy of application available NTIS. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

... other end secured to the other of the outer shell assemblies. During normal conditions, the **cable** portions are **security** connected together. Upon the applications of a predetermined amount of force to the movable portion...

Descriptors: Patent applications; \*Cable assemblies; \*Connectors; \*Release mechanisms ; \*Test vehicles; \*Data processing equipment; Transmission lines; Projectiles

31/3,K/6 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

0497547 NTIS Accession Number: PB-241 110/6/XAB

**Power Line Alarm Transmission System**

(Final rept)

Bell, R. F. ; Hardison, D. L. ; Pazemenas, V. V. ; Rowe, D. H.

GTE Sylvania, Inc., Mountain View, Calif. Electronic Systems Group-Western Div.

Sponsor: Law Enforcement Assistance Administration, Washington, D.C.

Jan 74 76p

Journal Announcement: GRAI7513

See also PB-241 111.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A05/MF A01

Descriptors: Warning systems; \*Transmission lines; Residential buildings; Power lines; Wiring; Electric **cables** ; **Security** ; False alarms

31/3,K/7 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

06575917 E.I. No: EIP03437688863

**Title: Remote Video Monitoring Over the WWW**

Author: Hui, S.C.; Wang, F.

Corporate Source: Nanyang Technological University School of Computer



Engineering, Singapore 639798, Singapore

Source: Multimedia Tools and Applications v 21 n 2 November 2003. p 173-195

Publication Year: 2003

CODEN: MTAPFB ISSN: 1380-7501

Language: English

...Abstract: packet loss and quality degradation, the iSecure system has implemented an adaptive transmission and recovery **mechanism** to enhance the quality of real-time video transmission. Intelligent monitoring for elevator security and...

Descriptors: Multimedia systems; World Wide Web; **Security** of data; Coaxial **cables** ; Videocassette recorders; Real time systems

31/3,K/8 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

05900944 E.I. No: EIP01416674418

**Title: Applying fiber optic technology to pump off controls**

Author: Lindsey, A.B.

Conference Title: Southwestern Petroleum Short Course: 48th Annual Meeting

Conference Location: Lubbock, TX, United States Conference Date: 20010425-20010426

E.I. Conference No.: 58441

Source: Proceedings of the Annual Southwestern Petroleum Short Course 2001. p 62-64

Publication Year: 2001

CODEN: PSPCD3 ISSN: 0361-5987

Language: English

...Abstract: becoming a commonplace in homes and businesses carrying not only telephone communications but also data, **cable** television, internet and **security** functions to name a few. As in the case of pump off controls, D-Jax...

Descriptors: Well pumps; Fiber optics; Oil fields; Oil field development; **Mechanical** variables control; Electric surges; Lightning; Electric currents; Lightning protection

31/3,K/9 (Item 3 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

04118808 E.I. No: EIP95032638624

**Title: Lift basics**

Author: Anon

Source: Public Works v 125 n 12 Nov 1994. p 37-39

Publication Year: 1994

CODEN: PUWOAH ISSN: 0033-3840

Language: English

Descriptors: Lift; Installation; Maintenance; Speed control; Accident prevention; **Security** systems; Costs; **Cables** ; Roller bearings; Bearing capacity

Identifiers: Inground lifts; Above ground lifts; Carriages; Lifting speed ; Lifting rate; Hydraulic fluid displacement system; Automatic **mechanical** locking devices; Equalization; Adopters

31/3,K/10 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003, EBSCO Pub. All rts. reserv.

00642343 01MQ09-001

**iBook writes the book on value**

Compton, Jason

Mobile Computing & Communications , September 1, 2001 , v12 n9 p24-25, 2

Page(s)

ISSN: 1047-1952

Company Name: Apple Computer

URL: <http://www.apple.com>

Product Name: Apple iBook

... Computer Inc. of Cupertino, CA (408). Explains that its elegant design manages to house a **security cable latch** , modem, Ethernet port, FireWire interface, two universal serial bus ports, and a VGA and video...

31/3,K/11 (Item 2 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003, EBSCO Pub. All rts. reserv.

00484247 98WW01-221

**With standard sure, vendors rush cable modems to market**

Rafter, Michelle V

WebWeek , January 19, 1998 , v4 n3 p24, 26, 2 Page(s)

ISSN: 1081-3071

... standard defines internal and external interfaces that support bidirectional traffic over a fiber and coaxial **cable** system, **security** provisions for sensitive data, and Quality of Service provisions. Adds that DOCSIS also incorporates MPEG...

...for certification testing four months from now at CableLabs, an industry research consortium. Includes one **bar** chart. (JC)

31/3,K/12 (Item 3 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003, EBSCO Pub. All rts. reserv.

00408379 96PQ01-001

**A great server room -- Are your servers critical to your business? Then you'd better show them some respect. Build them a great server room.**

Boyle, Padraic

PC Magazine-Network Edition , January 9, 1996 , v15 n1 pNE1-NE18, 8

Page(s)

ISSN: 0888-8507

... of wiring to be used (with a sidebar discussing cable bends based on type of **cable** ), power systems, **security** , and lighting. Includes a directory of vendors of cables, patch panels, hand-held test equipment...

... design and implementation of a proper server room will require the services of an architect, **mechanical** and electrical engineers, and a general contractor. Includes five illustrations. (djd)

31/3,K/13 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01376639  
GORE INTRODUCES CABLE SYSTEM  
FRANCE - GORE INTRODUCES CABLE SYSTEM  
Electroniques Actualites (EA) 111 September 1987 p20  
Language: French

Gore is planning the French introduction of a range of non intercept **cable** designed to guarantee **security** and protection of communications networks. NIC allows the automatic interruption of data transmission, notifying a...

PRODUCT: Local Area Network EquipLocal Area NetworksComputer & Data  
Security SoftwareCAD/CAM **Mechanical** Software

31/3,K/14 (Item 2 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01294177  
INCREASING **SECURITY** OF FIBRE-OPTIC **CABLES**  
W GERMANY - INCREASING **SECURITY** OF FIBRE-OPTIC **CABLES**  
Markt & Technik (MUT) 14 August 1987 p32  
ISSN: 0344-8843  
Language: German

INCREASING **SECURITY** OF FIBRE-OPTIC **CABLES**  
W GERMANY - INCREASING **SECURITY** OF FIBRE-OPTIC **CABLES**

PRODUCT: Food & DrinkTelecom Land LinesComputer & Data Security Software  
CAD/CAM **Mechanical** Software

31/3,K/15 (Item 1 from file: 483)  
DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

06217767 SUPPLIER NUMBER: 63333404  
Mechanic **Blamed for Elevator Fatality**  
Shear, Michael D  
Washington Post, p B.1  
Nov 7, 2000  
ISSN: 0190-8286 NEWSPAPER CODE: TWP  
DOCUMENT TYPE: News; Newspaper article  
LANGUAGE: English RECORD TYPE: ABSTRACT

Mechanic **Blamed for Elevator Fatality**

...ABSTRACT: working earlier that day. As he searched for the problem, the report states, Herrity used **cables** to bypass **security** systems on the inner and outer doors of the elevator car, apparently believing that the...  
?

File 344:Chinese Patents Abs Aug 1985-2003/Nov  
(c) 2003 European Patent Office  
File 347:JAPIO Oct 1976-2003/Aug(Updated 031202)  
(c) 2003 JPO & JAPIO  
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200379  
(c) 2003 Thomson Derwent

? ds

Set	Items	Description
S1	78611	TOUCHPAD? OR TOUCH()PAD? OR KEYBOARD? OR KEY()BOARD?
S2	303	(SECURITY OR ANTILOCK OR ANTITHEFT OR ANTI-LOCK? OR ANTI-T- HEFT) (3N)CABLE??
S3	74755	PCBA OR PRINT?()CIRCUIT?()BOARD?
S4	4961	S1 AND (COVER? OR PLASTIC OR SEETHROUGH OR SEE-THROUGH OR - TRANSLUCENT? OR TRANSPARENT? OR SHIELD?)
S5	806163	PROTECT? OR WATERPROOF OR WATER-PROOF OR RAINPROOF OR RAIN- -PROOF OR WATER() (RESISTAN? OR REPEL? OR PROTECT?)
S6	1910367	LATCH? OR BAR OR MECHAN?
S7	49786	CASH()REGISTER? OR KIOSK? OR (VENDING OR DISPENSING OR DI- SPENSER) (3N) (MACHINE OR TERMINAL OR UNIT OR APPARATUS OR DEVI- CE? OR BOOTH? ?)
S8	1154411	SEAL?? OR SEALING OR ADHESIVE OR GASKET?
S9	0	S2 AND S3 AND S1
S10	270	S1 AND S3 AND (COUPL? OR ATTACH? OR CONNECT?)
S11	121	S3 AND S4
S12	53	S10 AND S6
S13	1	S12 AND S7
S14	18	S11 AND S6
S15	0	S14 AND S2
S16	2	S14 AND (CABLE?? OR CABLING)
S17	573	S4 AND S5
S18	13	S17 AND S7
S19	13	S18 NOT (S13 OR S16)
S20	50	S12 NOT (S13 OR S18 OR S16)
S21	133533	IC=G09G?
S22	0	S20 AND S21
S23	6	S20 AND AD=20010111:20031208
S24	44	S20 NOT S23
S25	75	S1(5N) (TRANSLUCENT? OR TRANSPARENT?) (5N) (OVERLAY? OR OVER(- )LAY? OR COVER?)
S26	0	S25(S)S7
S27	5	S25 AND (S2 OR S6)
S28	5	S27 NOT (S12 OR S13 OR S18 OR S16)

13/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007394739 \*\*Image available\*\*  
WPI Acc No: 1988-028674/198804  
XRPX Acc No: N88-021576

**Ornate, antique cover for electronic cash register - has components  
fabricated of mouldable plastics material with front, side and rear  
panels provided with external decorative ornamentation**

Patent Assignee: HUDSON K (HUDS-I)  
Inventor: DOWDY J E; GORMLEY D E; VAMPOLA E F  
Number of Countries: 014 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4719337	A	19880112	US 871834	A	19870109	198804 B
WO 8805187	A	19880714	WO 87US90	A	19870109	198829
EP 296241	A	19881228	EP 88901367	A	19880111	198901

Priority Applications (No Type Date): US 871834 A 19870109; US 87106643 A  
19871009

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

US 4719337	A	14		
------------	---	----	--	--

WO 8805187	A	E		
------------	---	---	--	--

Designated States (National): JP KR

Designated States (Regional): AT BE CH DE FR GB IT LU NL SE

EP 296241	A	E		
-----------	---	---	--	--

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

**Ornate, antique cover for electronic cash register -**

...Abstract (Basic): The **cash register** cover is assembled from a set of interdigitating side panels, front panel, rear panel, indication cover and **keyboard** panel. The panels are injection-moulded with surface ornamentation and indicia to resemble and simulate an antique, **mechanical cash register**. Adjustable brackets located inside the indication cover are designed to accommodate one or more **printed circuit boards** of various size, in order to facilitate indication of alphanumeric messages which reflect the state-of-the-art electronic capability of the enclosed **cash register**.

...

...A **keyboard**, removed from the enclosed **cash register** and mounted in association with the **keyboard** panel, is electrically **connected** to the **keyboard** circuitry of the enclosed **cash register**, for operating the **cash register** and effecting display of the alphanumeric messages

?

16/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007424652 \*\*Image available\*\*  
WPI Acc No: 1988-058587/198809  
XRPX Acc No: N88-044477

**Portable folding telephone receiver - includes loudspeaker and microphone  
in two hinged shells with batteries and radio transceiver circuit**

Patent Assignee: MECELEC SA (MECE-N)

Inventor: DIAZ M; SELIER C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2601211	A	19880108	FR 869950	A	19860704	198809 B

Priority Applications (No Type Date): FR 869950 A 19860704

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
FR 2601211	A	7		

...Abstract (Basic): It also includes an external connector (7). The second shell accommodates the microphone (12) and **keyboard** (13) attached to its top **cover**, and a **printed circuit board** (15) mounted inside

... **Cables** link the two shells together electrically via the hinged joint (3) which holds them together **mechanically**. A tuning capacitor (16) and volume potentiometer (17) are mounted at the edge of the

16/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004477395  
WPI Acc No: 1985-304273/198549  
XRPX Acc No: N85-226205

**Electronic taximeter with flat two-piece housing - has circuit board  
secured by latches and sealed screw connections**

Patent Assignee: KIENZLE APP GMBH (KIEN ); MANNESMANN KIENZLE GMBH (MANS)

Inventor: ADAMS J; SCHOLL H P

Number of Countries: 011 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3419773	A	19851128	DE 3419773	A	19840526	198549 B
EP 163197	A	19851204	EP 85105930	A	19850514	198549
US 4574189	A	19860304	US 85737343	A	19850523	198612
DE 3419773	C	19861211				198650
ES 8607587	A	19861101	ES 543490	A	19850524	198701
EP 163197	B	19881109				198845
DE 3566176	G	19881215				198851

Priority Applications (No Type Date): DE 3419773 A 19840526

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 3419773	A	16		
EP 163197	A	G		

Designated States (Regional): AT BE CH DE FR GB IT LI SE  
EP 163197 B G

Designated States (Regional): AT BE CH DE FR GB IT LI SE

... has circuit board secured by latches and sealed screw connections

...Abstract (Basic): The taximeter has an electronic computer section with data memories, an operating **keyboard** and a display for actual operating data and stored data display on request. The unit...

...The rear half (2) of the unit is the carrier for the circuit and has **cable** guides for rear or lower **cable** entry. The rear wall (29) is suitable for attachment to the vehicle in which the...

...Abstract (Equivalent): formed by a base element (2) that has side walls (38,46) and a top **cover** (1...

...number of function keys (12) mounted as an array along the bottom edge. The top **cover** of the housing is secured by two **latching** portions (19) that engage in slots (20) in the base and by a pair of...

...Abstract (Equivalent): Taximeter with an electronic computer part (3-5) with data storage units, an operating **keyboard** (6-9) and a data display device (14) for representing the actual operating data and...

...which can be sealed, in which housing parts a taximeter circuit (4,5) located on **printed circuit boards** (3) is installed, the front housing part (1) facing the operator side containig actuating members ...

...46) for fixing the taximeter in the vehicle (50) and for the supply of the **cable** connections (42,43), characterised in that the housing parts are flat housing shells (1,2...

...means (18,19,20), that electronic taximeter circuit (4,5) is combined on a single **printed circuit board** (3), that the rear wall (29) of the rear housing shell (2) represents the mounting member for the attachment of the taximeter, that the means (45,46) for supplying the **cable** connection (42,43) facilitate an optional supply from the rear or from below, that provided...

...Abstract (Equivalent): The assembly includes an electronic calculating module with data memory, an operating **keyboard**, as well as a data indicating device, consists of two flat housing panels which are...

...Title Terms: **LATCH** ;

?

19/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

06178337 \*\*Image available\*\*  
REMOTE CONTROL **KEYBOARD** FOR AUTOMATIC **VENDING MACHINE**

PUB. NO.: 11-119886 [JP 11119886 A]  
PUBLISHED: April 30, 1999 (19990430)  
INVENTOR(s): WATANABE TAICHI  
SUGIURA HIROYUKI  
APPLICANT(s): IZUMI DENSHI KK  
APPL. NO.: 09-304934 [JP 97304934]  
FILED: October 20, 1997 (19971020)

REMOTE CONTROL **KEYBOARD** FOR AUTOMATIC **VENDING MACHINE**

ABSTRACT

PROBLEM TO BE SOLVED: To provide a remote control **keyboard** for an automatic **vending machine** that prevents an unnecessary operation against the will of a slide switch, cannot view an...

...a window hole, and can prevent an intrusion of dust and rain drops.

SOLUTION: This **device** is an automatic **vending machine** remote control **keyboard** that arranges a slide switch body on a circuit substrate and opens a window hole...

...set lower than the surface panel plate 2 and, at the same time, a semi-transparent **waterproof** /dustproof sheet having a flexibility for sealing the window hole 21 is disposed.

COPYRIGHT: (C...

19/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

04342847 \*\*Image available\*\*  
MARCHANDISE SALES REGISTRATION DEVICE

PUB. NO.: 05-334547 [JP 5334547 A]  
PUBLISHED: December 17, 1993 (19931217)  
INVENTOR(s): OSHIMA CHIKUHEI  
MATSUDA YOSHIHIRO  
APPLICANT(s): TOKYO ELECTRIC CO LTD [000356] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 04-138767 [JP 92138767]  
FILED: May 29, 1992 (19920529)  
JOURNAL: Section: P, Section No. 1715, Vol. 18, No. 172, Pg. 58, March 23, 1994 (19940323)

ABSTRACT

...slit of a card reader in a merchandise sales registration device such as an electronic **cash register** by means of a **protection cover** and to automatically open it if necessary...

...CONSTITUTION: A **cover** driving means is provided which open/close-drives the **protection cover** 14 in accordance with prescribed



job information which is operation-inputted by the information input means 5 and 6 of a **keyboard** and the like.

**19/3,K/3 (Item 1 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

015562690 \*\*Image available\*\*

WPI Acc No: 2003-624846/200359

XRAM Acc No: C03-170638

XRPX Acc No: N03-497109

**Programmable therapeutic apparatus for regulating transdermal delivery of medicaments, comprises microprocessor controlled medication dispensing transdermal device , carrier unit possessing programmer, and removable computer interface module**

Patent Assignee: BETTINGER D S (BETT-I)

Inventor: BETTINGER D S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6539250	B1	20030325	US 99461305	A	19991215	200359 B

Priority Applications (No Type Date): US 99461305 A 19991215

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6539250	B1	10	A61N-001/30	

**Programmable therapeutic apparatus for regulating transdermal delivery of medicaments, comprises microprocessor controlled medication dispensing transdermal device , carrier unit possessing programmer, and removable computer interface module**

Abstract (Basic):

- ... 1) a microprocessor controlled medication **dispensing** transdermal **device** ;
- (
- ... 1) a microprocessor controlled medication **dispensing** transdermal **device** , including a patch, communicating by detachable mechanism...
- ...program to download the specific beneficial therapeutic regimen to programmer of the microprocessor controlled medication **dispensing device** ;
- (...
- ...10) detaching the microprocessor controlled medication **dispensing device** from the carrier unit...
- ...11) removing a **protective storage shield** form the microprocessor controlled medication **dispensing device** to activate the microprocessor controlled medication **dispensing device** and attaching the microprocessor controlled medication **dispensing device** to the patient...
- ...12) permitting the microprocessor controlled medication **dispensing device** to follow the specific beneficial therapeutic regimen for dispensing to the patient of the medication...
- ...13) removing the microprocessor controlled medication **dispensing**

**device** from the patient at completion of the specific beneficial therapeutic regimen  
Technology Focus:  
... Preferred Component: The transdermal device possesses a **protective storage shield**, selected to activate the beneficial therapeutic regimen, upon removal from the transdermal device. It is...  
...The carrier unit possesses a **touchpad** and a display for entering and exhibiting alphanumeric data.

19/3,K/4 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

012525686 \*\*Image available\*\*  
WPI Acc No: 1999-331792/199928  
XRPX Acc No: N99-249427

**Slide switch mounting arrangement in remote control keyboard for automatic vending machine - has dust-proof and water-proof flexible sheet surrounding slide switch knob such that knob entry hole is covered**

Patent Assignee: IZUMI DENSHI KK (IZUM-N)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
JP 11119886 A 19990430 JP 97304934 A 19971020 199928 B

Priority Applications (No Type Date): JP 97304934 A 19971020  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
JP 11119886 A 4 G06F-003/02

**Slide switch mounting arrangement in remote control keyboard for automatic vending machine - ...**  
**...and water-proof flexible sheet surrounding slide switch knob such that knob entry hole is covered**

...Abstract (Basic): at the bottom of disk-like receptacle provided on surface of panel (2) of the **keyboard**. Top portion of knob is below the surface panel level. A flexible, semi- **transparent**, water-proof and dust-proof sheet **covers** the hole for slide switch knob...

...USE - In remote control **keyboard** for automatic **vending machine**.  
...

...ADVANTAGE - As **protective** layer surrounds slide switch knob, accidental operation of switch is prevented. Entry of dust and  
...Title Terms: **KEYBOARD** ;

19/3,K/5 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

010849360 \*\*Image available\*\*  
WPI Acc No: 1996-346313/199635  
XRPX Acc No: N96-291605

**Flat keyboard for e.g. electronic cash register, point of sales - provides projection line along periphery of protection sheet formed on**

**surface of main unit to which key matrix is arranged**

Patent Assignee: TOKYO ELECTRIC CO LTD (TODK )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8161093	A	19960621	JP 94299246	A	19941202	199635 B

Priority Applications (No Type Date): JP 94299246 A 19941202

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8161093	A		4 G06F-003/02	

**Flat keyboard for e.g. electronic cash register , point of sales...**

**...provides projection line along periphery of protection sheet formed on surface of main unit to which key matrix is arranged**

**...Abstract (Basic): The keyboard (4) has a main unit (6) to which several keys are arranged in matrix. An openable transparent protection sheet (7) covers the keys surface...**

**...A character sheet (8) is arranged between the surface of the key and the protection sheet. A projection line (11) is formed in the peripheral side of a protection sheet...**

**...ADVANTAGE - Improves protection sheet rigidity by forming projection line. Prevents protection sheet peripheral side from turning over; prolongs its service life. Cost effective since frequency of changing protection sheet is reduced...**

**...Title Terms: KEYBOARD ;**

**19/3,K/6 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

010764137 \*\*Image available\*\*

WPI Acc No: 1996-261091/199627

XRPX Acc No: N96-219640

**Manipulation protection plate for cigarette dispensing machine - is fitted over front panel to cover clearance gap to prevent insertion of wire to operate release mechanism**

Patent Assignee: BOBERG K O (BOBE-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 29602957	U1	19960530				199627 B

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 29602957	U1		6 G07F-009/00	

**Manipulation protection plate for cigarette dispensing machine -**

**...**

**...is fitted over front panel to cover clearance gap to prevent insertion of wire to operate release mechanism**

**...Abstract (Basic): The plate is intended for a cigarette dispensing machine which has an internal key element (3) that under normal**

conditions is released by the insertion of coins to activate the selection **keyboard** .

...

...inserted through a gap in the front (4) is prevented with the aid of the **cover** plate. The front panel has a pair of projecting threaded studs [1] that are used

...Title Terms: **PROTECT** ;

**19/3,K/7** (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

009975766

WPI Acc No: 1994-243479/199430

XRAM Acc No: C94-111186

**Protective cover for key board - obtd. by forming polyolefin-based resin sheet comprising an polyethylene-methyl polymethacrylate copolymer**

Patent Assignee: SUMITOMO BAKELITE CO LTD (SUMB )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 6175760	A	19940624	JP 92327045	A	19921207	199430 B

Priority Applications (No Type Date): JP 92327045 A 19921207

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 6175760	A		3 G06F-003/02	

**Protective cover for key board -**

...Abstract (Basic): A **protective cover** is formed by forming a polyolefin-based resin sheet comprising mainly an ethylene methyl methacrylate...

...USE/ADVANTAGE - The **protective cover** is used for **key boards** and finds its application in computer terminals, word processors, computer game machines, or **cash registers** . The **protective cover** allows easy forming. The **key board cover** has no deterioration in its appearance after repeated and continuous application. The **protective cover** has resistance to fouling and retains its transparency without yellowing...

Title Terms: **PROTECT** ;

**19/3,K/8** (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

009230805 \*\*Image available\*\*

WPI Acc No: 1992-358225/199244

XRPX Acc No: N92-273007

**Automatic cash dispensing machine - has curved screen shielding user from view during cash dispensing operation**

Patent Assignee: BITSCH E (BITS-I); BITSCH H (BITS-I)

Inventor: BITSCH E; BITSCH H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4112797	A	19921022	DE 4112797	A	19910419	199244 B

Priority Applications (No Type Date): DE 4112797 A 19910419

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4112797	A		3	E04H-001/12	

**Automatic cash dispensing machine - ...**

**...has curved screen shielding user from view during cash dispensing operation**

**...Abstract (Basic): The automatic cash dispensing machine has a magnetic card reader, for comparing the PIN code recorded on an entered card with the PIN number entered via a manual keyboard, to control the function of the cash dispensing mechanism...**

**...The user is screened from view during input of the PIN number and protected during extraction of the cash, by a curved screen (9) forming one quarter of a circle enclosing the support post (1) for the cash dispensing machine. The screen (9) may be made of wood, sheet metal, or plastics...**

**...Title Terms: SHIELD ;**

**19/3,K/9 (Item 7 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

008534120 \*\*Image available\*\*

WPI Acc No: 1991-038183/199106

XRPX Acc No: N91-029494

**Data input device for vending or banking machine - has code number held in read-write memory with physical protection against tampering**

Patent Assignee: SCHEIDT & BACHMANN GMBH (SCHE-N)

Inventor: BAUMANN G; BUSCH E; MILLER G; SAUERMAN M; WORTELKAMP U

Number of Countries: 011 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 411185	A	19910206	EP 89114325	A	19890803	199106 B
EP 411185	B1	19940608	EP 89114325	A	19890803	199422
DE 58907852	G	19940714	DE 507852	A	19890803	199428
			EP 89114325	A	19890803	
ES 2057029	T3	19941016	EP 89114325	A	19890803	199442

Priority Applications (No Type Date): EP 89114325 A 19890803

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

EP 411185	A				
-----------	---	--	--	--	--

Designated States (Regional): AT BE CH DE ES FR GB GR LI LU NL

EP 411185	B1	G	8	G07F-007/10
-----------	----	---	---	-------------

Designated States (Regional): AT BE CH DE ES FR GB GR LI LU NL

DE 58907852	G	G07F-007/10	Based on patent EP 411185
-------------	---	-------------	---------------------------

ES 2057029	T3	G07F-007/10	Based on patent EP 411185
------------	----	-------------	---------------------------

**Data input device for vending or banking machine - ...**

**...has code number held in read-write memory with physical protection against tampering**

...Abstract (Basic): The data input device has an input **keyboard** (3) coupled to a circuit board (8) supporting a processor (9) and a read/write...

...code number if held. The circuit board (8) is enclosed on all sides by a **protective cover** (12) which blocks access to the memory (10) for preventing the code number from being...

...Pref. the position of the **protective cover** (12) relative to the circuit board (8) is monitored via position sensors, e.g. microswitches

...

...ADVANTAGE - **Protected** against fraud. (7pp Dwg.No.2/2)

...Abstract (Equivalent): Data input **device** for **vending** and/or service equipment, such as automatic petrol pumps, automatic teller machines, automatic units for...

...authorisation and point-of-sales equipment for handling cashless payment transactions for example, having a **keyboard** (3) and a circuit board (8) which is electrically connected to the **keyboard** (3), is arranged spatially adjacent to it and which contains, in addition to a processor

...

...further processing and encrypting the user-specific data, for example PIN code, input via the **keyboard** (3), a read-write memory (RAM) (10) buffered by an energy source, for example capacitor...

...the circuit board (8) containing the processor (9) and the read-write memory (10) is **protected** against access on all sides by a **cover** (12), whose change of position, removal or damage leads to the code number being erased in the read-write memory (1), and in that the **cover** (12) is formed by at least two mutually insulated electroconductive layers...

...Title Terms: **PROTECT** ;

19/3,K/10 (Item 8 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

008395636 \*\*Image available\*\*  
 WPI Acc No: 1990-282637/199038  
 XRPX Acc No: N90-218152

**Front protective cover plate for foil keyboard - has reduced thickness zone above each piezoelectric keyboard element providing zone of high elasticity in cover plate**

Patent Assignee: DYNALAB AG (DYNA-N)

Inventor: SCHENK M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CH 675028	A	19900815	CH 86342	A	19860129	199038 B

Priority Applications (No Type Date): CH 86342 A 19860129

**Front protective cover plate for foil keyboard - ...**

**...has reduced thickness zone above each piezoelectric keyboard element providing zone of high elasticity in cover plate**

...Abstract (Basic): The **cover** plate (1) providing mechanical **protection** of the **keyboard** surface, has a recess in its underside at the position of each **keyboard** element (16), to provide a zone of relatively high elasticity in the **cover** plate (1) allowing operation of the underlying **keyboard** element (16...

...The **keyboard** has a pair of opposing planar foils (12,13), either side of a spacing foil...

...for each of the keys, responding to press. applied to the front surface of the **cover** plate (1...

...USE - For **protecting keyboard** against vandalism for public telephone or automatic **vending machine** .(5pp Dwg.No.1/6)

...Title Terms: **PROTECT** ;

19/3,K/11 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008253931 \*\*Image available\*\*  
WPI Acc No: 1990-140932/199019  
XRPX Acc No: N90-109292

**Foil keyboard front plate - has each underlying key operated by pressure applied to reduced thickness area of front plate**

Patent Assignee: DYNALAB AG (DYNA-N); SCHENK & CO (SCHE-N)

Inventor: SCHENK M

Number of Countries: 009 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 366832	A	19900509	EP 88118451	A	19881104	199019 B
EP 366832	B1	19940302	EP 88118451	A	19881104	199409
DE 3888182	G	19940407	DE 3888182	A	19881104	199415
			EP 88118451	A	19881104	

Priority Applications (No Type Date): EP 88118451 A 19881104

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

EP 366832	A			
-----------	---	--	--	--

Designated States (Regional): AT BE DE FR GB IT LU NL SE

EP 366832	B1 G	7	H01H-013/70	
-----------	------	---	-------------	--

Designated States (Regional): AT BE DE FR GB IT LU NL SE

DE 3888182	G		H01H-013/70	Based on patent EP 366832
------------	---	--	-------------	---------------------------

**Foil keyboard front plate...**

...Abstract (Basic): The first **keyboard** has a rigid front plate (1) extending across the **keyboard** operating surface exhibiting areas of reduced thickness in alignment with the different keys (16), which...

...1), or by forming holes in the front plate above each key which are then **covered** by a relatively thin **cover** plate...

...USE - For automatic **vending machine** or pay telephone providing **protection** against vandalism. (6pp Dwg.No.6/6)

...Abstract (Equivalent): Laminate-type **keyboard** (10)having an upper and a lower laminate (12, 13) enclosing piezoelectric crystal elements (16

...

...area over said element, characterized in that a rigid plate (1) is arranged as a **cover** plate on said laminate-type **keyboard** (10) and is resting on said upper laminate (12) **covering** said areas over said piezoelectric elements (16) and the areas therebetween, and that said rigid...

...Title Terms: **KEYBOARD** ;

19/3,K/12 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007267618

WPI Acc No: 1987-264625/198738

XRPX Acc No: N87-198236

**Cash dispensing and oath depositing apparatus - has scanner reader, laser printer, keyboard and card slot for recording and issuing statements and sworn depositions**

Patent Assignee: PINTNER P (PINT-I)

Inventor: PINTNER P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3604156	A	19870917	DE 3604156	A	19860210	198738 B

Priority Applications (No Type Date): DE 3604156 A 19860210

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 3604156	A	4		

**Cash dispensing and oath depositing apparatus - ...**

**...has scanner reader, laser printer, keyboard and card slot for recording and issuing statements and sworn depositions**

...Abstract (Basic): After a **plastic** identity card is inserted in a slot (2) and the personal code is entered in a processor controlled apparatus (1) via a **keyboard** (3), a text or a photograph is placed on the reader (4) and an enter...

...previously entered text or picture after self identification with identity card and code. Entries are **protected** in a secure memory...

...Title Terms: **KEYBOARD** ;

19/3,K/13 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

003251092

WPI Acc No: 1982-A7355E/198203

**Waterproof keyboard e.g. for data terminal or cash register - has outer frame forming air chamber around perimeter of raised keyboard preventing capillary ingress of liquids**

Patent Assignee: NCR CORP (NATC )

Inventor: ISOZAKI H; KATO S; SAKAMA S

Number of Countries: 006 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8200064	A	19820107				198203 B



EP 55278	A	19820707	EP 81901874	A	19810612	198228
US 4396830	A	19830802				198333
CA 1167429	A	19840515				198424
EP 55278	B	19841031				198444
DE 3166933	G	19841206				198450

Priority Applications (No Type Date): JP 8085282 A 19800625

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
WO 8200064	A	E	13		
				Designated States (Regional):	DE FR GB NL
EP 55278	A	E			
				Designated States (Regional):	DE FR GB NL
EP 55278	B	E			
				Designated States (Regional):	DE FR GB NL

Waterproof keyboard e.g. for data terminal or cash register - ...

...has outer frame forming air chamber around perimeter of raised keyboard preventing capillary ingress of liquids

...Abstract (Basic): The membrane-type **keyboard** assembly has a frame (42) with an outer sloping wall (48) forming an air chamber (52) around the perimeter of a raised **keyboard** (28). The outer wall slopes at the same angle as the sidewall (26) of the...

...24). The air chamber prevents liq. spilt on the support surface (22) from contacting the **keyboard** or key-tip indicator sheet (36). A number of inner wall extensions (54) of the frame (42) releasably engage apertures (30) in the raised support position securing a **cover** to the support...

...For assembly, the **keyboard** device (32) and indicator sheet are positioned on the surface (28) of the raised support. The indicator sheet is readily changed to comply with a change in **keyboard** function. For liquids. spilt on the device that do penetrate the air chamber, removal of the **cover** enables cleaning and indicator that replacement if necessary...

Title Terms: **WATERPROOF** ;

?

24/3,K/1 (Item 1 from file: 344)  
DIALOG(R)File 344:Chinese Patents Abs  
(c) 2003 European Patent Office. All rts. reserv.

4296204

**KEY UNIT FOR KEYBOARD OF COMPUTER**

Patent Assignee: DAFANG ELECTRONIC CO LTD (CN)  
Author (Inventor): JIANSHI XU (CN); BINGQIAN LIAO (CN)  
Patent Family:

CC Number	Kind	Date
CN 1326205	A	20011212 (Basic)

Application Data:

CC Number	Kind	Date
*CN 2000117646	A	20000525

24/3,K/2 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

07523036 \*\*Image available\*\*  
KEY SWITCH DEVICE

PUB. NO.: 2003-016867 [JP 2003016867 A]  
PUBLISHED: January 17, 2003 (20030117)  
INVENTOR(s): WATANABE MAKOTO  
SATO YOSHITSUGU  
TAKAGI TAKEYUKI  
MOCHIZUKI ISAO  
OKADA HIROAKI  
APPLICANT(s): BROTHER IND LTD  
APPL. NO.: 2002-147870 [JP 20022147870]  
Division of 2002-119370 [JP 20022119370]  
FILED: February 05, 1993 (19930205)  
PRIORITY: 05-000685 [JP 93685], JP (Japan), January 06, 1993 (19930106)

**ABSTRACT**

... member, capable of providing large key stroke and of coping with the thinning of a **keyboard**, and having superior key operability.

SOLUTION: This device is structured so that both end parts of a locking **bar** 21 are projected in a pin-like form, at **connection** parts of a pair of plate-like bodies 17 to the locking **bar** 21 in the second link member 8, thick parts 21a, each having a large thickness are formed integrally with those parts, a rubber spring 35 and a flexible **printed circuit board** 40 are supported by a switch support plate 42, and the upper end part of...

24/3,K/3 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

07243379 \*\*Image available\*\*  
**CONNECTOR CONNECTION MECHANISM OF ELECTRONIC APPARATUS**

PUB. NO.: 2002-111830 [JP 2002111830 A]  
PUBLISHED: April 12, 2002 (20020412)  
INVENTOR(s): KATAUE TOSHITERU  
APPLICANT(s): HOSIDEN CORP

APPL. NO.: 2000-295969 [JP 2000295969]  
FILED: September 28, 2000 (20000928)

**CONNECTOR CONNECTION MECHANISM OF ELECTRONIC APPARATUS**

**ABSTRACT**

**PROBLEM TO BE SOLVED:** To provide a **connector connection** mechanism in which a display can be set at an easy-to-view angle by turning a portable telephone, and the **coupling** part can be protected against damage even if an undue external force acts thereat.

**SOLUTION:** A slider 20 is disposed slidably in the enclosure 12 of a folding **keyboard** 4 and a bearing 19 having a cut 23 and a shaft provided for a portable telephone **connector** 25 **connected** with the **printed circuit board** of the **keyboard** are fitted rotatably to the forward end of the slider. The **connector** 25 can enter or exit the enclosure freely through operation of the slider, the display...

...a portable telephone, the shaft is removed from the cut and dropped thus protecting the **connector** against damage.

COPYRIGHT: (C)2002, JPO

24/3,K/4 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

(c) 2003 JPO & JAPIO. All rts. reserv.

04073296 \*\*Image available\*\*

MULTIFUNCTIONAL IC CARD

PUB. NO.: 05-064996 [JP 5064996 A]

PUBLISHED: March 19, 1993 (19930319)

INVENTOR(s): TERUI TADANOBU

APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 03-230256 [JP 91230256]

FILED: September 10, 1991 (19910910)

JOURNAL: Section: M, Section No. 1446, Vol. 17, No. 377, Pg. 102, July  
15, 1993 (19930715)

**ABSTRACT**

... realize a multifunctional IC module wherein an IC module having an ISO terminal and a **printed circuit board** loaded with an LCD or a **keyboard** are electrically and **mechanically connected** without increasing thickness...

... are respectively assembled on separate printed boards 25, 32 in a divided form and the **connection** lead patterns 23, 29 provided to said boards are electrically **connected** by solder paste 39 or an anisotropic conductive adhesive using the printed wiring 38 provided...

24/3,K/5 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

015266676 \*\*Image available\*\*

WPI Acc No: 2003-327605/200331

Related WPI Acc No: 2003-391893

XRPX Acc No: N03-261886

**Electrical component protection system used in electronic device e.g. portable computer, encloses protective cartridge in which printed circuit board containing memory module is mounted, in chassis**

Patent Assignee: COMPAQ COMPUTER CORP (COPQ )

Inventor: MEGASON G D; POST C H; ROSCOE B D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6498731	B1	20021224	US 2000691507	A	20001018	200331 B

Priority Applications (No Type Date): US 2000691507 A 20001018

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6498731	B1	10	H05K-007/14	

... **protection system used in electronic device e.g. portable computer, encloses protective cartridge in which printed circuit board containing memory module is mounted, in chassis**

Abstract (Basic):

... A **printed circuit board** (210) on which a memory module (206) is arranged, is mounted on the **printed circuit board** (218) of a protective cartridge (200), through an electrical **connector** (216). The cartridge is **mechanically** enclosed in a chassis whose multi-pin **connector** (222) is electrically **coupled** to the electrical **connector** .

... server, mini computer, etc., also for electronic devices in vehicles, also for protecting button, switches, **keyboard** , light pen, mouse, television screen, computer monitor, LEDs, audio display, voice recognition system, printer, modem...

... **printed circuit board** (210...

...electrical **connector** (216...

... **printed circuit board** (218...

...multi-pin **connector** (222

.24/3,K/6 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

014421583

WPI Acc No: 2002-242286/200230

XRPX Acc No: N02-187298

**Key unit for keyboard of computer**

Patent Assignee: DAFANG ELECTRONIC CO LTD (DAFA-N)

Inventor: LIAO B; XU J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CN 1326205	A	20011212	CN 2000117646	A	20000525	200230 B

Priority Applications (No Type Date): CN 2000117646 A 20000525

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
CN 1326205	A		H01H-013/14	

**Key unit for keyboard of computer**

Abstract (Basic):

... A key unit for computer **keyboard** is composed of hard and flexible **printed circuit board** and key **mechanism**. Said hard **printed circuit board** has two adjacent electric conducting terminals and two lines connected to said terminals. Said flexible **printed circuit board** fixed to said hard circuit board and has electric conducting sheets **connected** with said terminals and isolating layer. Said key **mechanism** is fixed to said flexible circuit board in the manner that it can be pressed...

...Title Terms: **KEYBOARD** ;

**24/3,K/7 (Item 3 from file: 350)**

DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

013946416 \*\*Image available\*\*

WPI Acc No: 2001-430629/200146

**Educational apparatus for automatically playing melody**

Patent Assignee: KIM Y Y (KIMY-I); LEE S J (LEES-I)

Inventor: KIM Y Y; LEE S J

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001001242	A	20010105	KR 9920332	A	19990602	200146 B
KR 296857	B	20010712	KR 9920332	A	19990602	200226

Priority Applications (No Type Date): KR 9920332 A 19990602

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001001242	A	1	G10H-001/00	
KR 296857	B		G10H-001/00	Previous Publ. patent KR 2001001242

Abstract (Basic):

... educational appliance for automatically playing melody is provided to rotate an impeller including an electronic **keyboard** assembly on a base body to press a musical scale button by a pressing **bar** variably equipped in the impeller, so that people can easily understand and learn a musical...

... to correspond to each other, to support both ends of the body(10). An electronic **keyboard** assembly(20) installs a **printed circuit board** (PCB) having many musical scale buttons(21) on the base body(10), and has a...

...PCB, then outputs melody. Both sides of an impeller(30) are installed on the supporting **bar** (11). The impeller(30) variably presses the scale buttons(21) according to rotating operations. A...

...one end of the impeller(30) rotatively drives the impeller(30). A variable resistor(50) **connected** to the speed reducer(40) varies a rotating speed of the impeller(30). A driving motor(60) **connected** to the speed reducer(40) decelerates the impeller(30) at regular speeds. A controller(70)...

**24/3,K/8 (Item 4 from file: 350)**

DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

013669837 \*\*Image available\*\*

WPI Acc No: 2001-154049/200116

XRPX Acc No: N01-113621

**Universal serial bus connector for peripheral equipment like telephone device, keyboard, has terminal extending downward from shell bottom board at front end near insertion opening for fixing to hole in PCB**

Patent Assignee: FUJITSU TAKAMIZAWA COMPONENT KK (FUJI-N); FUJITSU

TAKAMIZAWA COMPONENT LTD (FUJI-N)

Inventor: KATOH S; OKUYAMA T; SHIMIZU M

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000357550	A	20001226	JP 99168396	A	19990615	200116 B
US 6305984	B1	20011023	US 99452197	A	19991202	200165

Priority Applications (No Type Date): JP 99168396 A 19990615

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

JP 2000357550	A	12	H01R-012/22	
---------------	---	----	-------------	--

US 6305984	B1		H01R-013/648	
------------	----	--	--------------	--

**Universal serial bus connector for peripheral equipment like telephone device, keyboard, has terminal extending downward from shell bottom board at front end near insertion opening for...**

Abstract (Basic):

... The **connector** (20) has a shell with a **connector** insertion opening (24) formed by bending a metal plate of preset shape. Legs (25) at the shell rear side bottom, are used for mounting in a **printed circuit board** (40). A terminal (27) extends downward from the shell bottom board at the front end...

...the insertion opening. The terminal is inserted and fixed to the hole (43) of the **printed circuit board**.

... For peripheral equipment like telephone device and **keyboard**.

...Mounts shell to a **printed circuit board** buoyantly with sufficient balance with the aid of legs and terminal. Avoids bulging of **connector** insertion opening by ensuring mounting stability of shell. Enhances **mechanical** strength of the shell. Improves temporary mounting of the shell by balancing with legs and terminal. Enables efficient mounting of a **connector**.

...The figure shows the isometric view of universal serial bus **connector** in unconnected state...

... **Connector** (20...

... **Connector** insertion opening (24...

... **Printed circuit board** (40

...Title Terms: **CONNECT** ;

24/3,K/9 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

011693948      \*\*Image available\*\*  
WPI Acc No: 1998-110858/199810  
XRPX Acc No: N98-088686

**Conversion apparatus for upgrading conventional keyboard musical instruments to MIDI standard - has array of key sensor switches individually adjustable in horizontal plane to accommodate varying angular positions of keys behind balance rail of keyboard**

Patent Assignee: WILLIS R A (WILL-I)

Inventor: WILLIS R A

Number of Countries: 025    Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9802870	A1	19980122	WO 97US10845	A	19970714	199810 B
AU 9735755	A	19980209	AU 9735755	A	19970714	199823
US 5763806	A	19980609	US 96679926	A	19960715	199830
CN 1225735	A	19990811	CN 97196464	A	19970714	199950
JP 2001518201	W	20011009	JP 97536578	A	19970714	200174
			WO 97US10845	A	19970714	

Priority Applications (No Type Date): US 96679926 A 19960715

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9802870	A1	E	29	G10H-007/00	
				Designated States (National):	AU BR CA CN JP KR MX
				Designated States (Regional):	AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
AU 9735755	A			G10H-007/00	Based on patent WO 9802870
US 5763806	A			G10H-007/00	
CN 1225735	A			G10H-007/00	
JP 2001518201	W		20	G10C-003/12	Based on patent WO 9802870

**Conversion apparatus for upgrading conventional keyboard musical instruments to MIDI standard...**

...adjustable in horizontal plane to accommodate varying angular positions of keys behind balance rail of keyboard

...Abstract (Basic): sensors for sensing key actuation and expression effects by a musician. A magnetically attractive mounting **bar** mounts the linear arrays of key actuation sensors above the **keyboard** and behind the balance rail of the musical instrument...

...Each actuation sensor includes a sensing probe and a mounting plate **printed circuit board** to convert each key actuation and expression effect of the musician to coded electrical signals. A magnet element **connects the printed circuit boards** to the magnetically attractive mounting **bar** and to each key. Each key actuation sensor can be adjusted in a horizontal direction relative to the magnetically attractive mounting **bar**.

...Title Terms: **KEYBOARD ;**

24/3,K/10      (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

010214320      \*\*Image available\*\*  
WPI Acc No: 1995-115574/199515

Related WPI Acc No: 1994-026520; 1994-279956; 1994-294547; 1994-317314;  
1995-007151; 1995-023197; 1995-061122; 1995-131097; 1995-179009;  
1995-194283; 1995-207066; 1995-293305; 1995-351099; 1995-393201;  
1996-097736; 1996-106071; 1996-151599; 1996-160036; 1996-180083;  
1996-251919; 1996-252008; 1996-341773; 1996-354763; 1996-454752;  
1997-020753; 1997-077187; 1997-118667; 1997-271673; 1997-297676;  
1998-008299; 1998-168664; 1998-446384; 1998-456605; 1998-506185;  
1999-130574; 2001-456838; 2003-645170

XRPX Acc No: N95-091172

**Cooling method for cooling heat-producing integrated circuit package  
assembly mounted within portable computer enclosure - involves mounting  
IC package within computer enclosure apart from coplanar heat-sink plate  
with compressible heat-conducting material connection**

Patent Assignee: KIKINIS D (KIKI-I); OAKLEIGH SYSTEMS INC (OAKL-N)

Inventor: KIKINIS D

Number of Countries: 019 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9506907	A1	19950309	WO 94US9998	A	19940901	199515 B
US 5430609	A	19950704	US 93116331	A	19930902	199532

Priority Applications (No Type Date): US 93116331 A 19930902

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

WO 9506907	A1	E	19	G06F-001/16	
------------	----	---	----	-------------	--

Designated States (National): CN JP

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL  
PT SE

US 5430609	A		9	G06F-001/16	
------------	---	--	---	-------------	--

... package within computer enclosure apart from coplanar heat-sink plate  
with compressible heat-conducting material connection

...Abstract (Basic): To provide **mechanical** stability, the heat-conducting  
material is fastened to one of the heat sink plates and...

...the heat-conducting material extending through an opening in a wall of  
the enclosure. The **keyboard** (13) is a hinged unit (20) pivoting about  
hinges. The underside of the **keyboard** pan is constructed of a  
thermally conducting material, typically a metal. The **printed  
circuit board** (PCB) (34) carries the CPU microprocessor and is  
mounted so that the **keyboard** pan closes directly over the CPU...

...Abstract (Equivalent): To provide **mechanical** stability, the  
heat-conducting material is fastened to one of the heat sink plat and

...  
...Title Terms: **CONNECT**

24/3,K/11 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

009621252 \*\*Image available\*\*

WPI Acc No: 1993-314801/199340

Related WPI Acc No: 1999-435302; 2001-386193; 2001-403166; 2002-648557;  
2002-745267; 2003-233516; 2003-233517; 2003-233518

XRPX Acc No: N94-012487

**Key switch assembly for keyboard of word processor or computer - has  
key support mechanism formed by pivotally joining two support levers in  
scissors-like form, to support plate beneath printed circuit board**



Patent Assignee: BROTHER KOGYO KK (BRER )  
Inventor: MOCHIZUKI I; WATANABE M  
Number of Countries: 002 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 5225858	A	19930903	JP 9261395	A	19920214	199340 B
US 5278371	A	19940111	US 92967070	A	19921028	199403

Priority Applications (No Type Date): JP 9261395 A 19920214

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 5225858	A	6	H01H-013/20	
US 5278371	A	10	H01H-003/12	

**Key switch assembly for keyboard of word processor or computer...**

...has key support mechanism formed by pivotally joining two support levers in scissors-like form, to support plate beneath printed circuit board

...Abstract (Basic): The key switch assembly comprises a key having a lower surface integrally provided with a **connecting** device having at least two first guiding parts projecting from the lower surface, and a...

...the key for vertical movement w.r.t the lower surface of the key and **coupled** to the at least two first guiding parts. A switching member is disposed under the...

...A **printed circuit board** is disposed under the switching member, and a support plate having an upper surface is disposed under the **printed circuit board**, supporting the **printed circuit board** on the upper surface and provided with at least two second guiding parts positioned to correspond to the at least two first guiding parts, respectively. The support is **coupled** to the at least two second guiding parts and the **printed circuit board** is disposed between the support plate and the support...

...Title Terms: **KEYBOARD** ;

**24/3,K/12 (Item 8 from file: 350)**

DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

009373936 \*\*Image available\*\*

WPI Acc No: 1993-067415/199308

XRPX Acc No: N93-051668

**User repairable personal computer - includes replacement kit that contains system board, hard disc drive, disc drive controller and power supply modules**

Patent Assignee: MARCRAFT INT CORP (MARC-N)

Inventor: BROOKS C J; GREGG G H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5185881	A	19930209	US 90581563	A	19900912	199308 B

Priority Applications (No Type Date): US 90581563 A 19900912

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5185881	A	19	G06F-011/00	

...Abstract (Basic): further has peripheral modules in the form of a video display module (16) and a **keyboard** module (18). The system board module has a microprocessor integrated circuit device (54) and supporting...

...mounted to pin sockets (60). Additionally the module has status wires (66) that are operationally **connected** to a front panel (22) of the chassis by a front panel status **connector** (160). The set of wires has one end permanently electrically **connected** to the **printed circuit board** (52). The **connector** has a keying device (161) for preventing the **connector** for being incorrectly assembled and a **latch** (167) for preventing unintentional disconnection...

24/3,K/13 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008644844 \*\*Image available\*\*  
WPI Acc No: 1991-148874/199120  
XRPX Acc No: N91-114262

**Configurable entry device for data processing system - has two keyboards configuration devices for selection of key signal encoder and control units for each working station**

Patent Assignee: KAISER T (KAIS-I); KEISER T (KEIS-I)

Inventor: KAISER T

Number of Countries: 026 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9106049	A	19910502				199120 B
AU 8945012	A	19910516				199133
AU 9065213	A	19910516				199133
FI 9102944	A	19910617				199137
FI 9102945	A	19910617				199137
NO 9102375	A	19910620				199148
NO 9102376	A	19910620				199203
CA 2044283	A	19920422				199228
EP 507774	A1	19921014	EP 90914889	A	19901021	199242
			WO 90CH246	A	19901021	
CH 682854	A5	19931130	WO 90CH246	A	19901021	199347
			CH 911911	A	19901021	

Priority Applications (No Type Date): WO 89EP1262 A 19891020; EP 90914889 A 19901021

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

WO 9106049	A			
------------	---	--	--	--

Designated States (National): AU BG BR CA CH DK FI HU JP KR MC NO RO SU

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU NL OA SE

EP 507774	A1 G	71	G06F-003/023	Based on patent WO 9106049
-----------	------	----	--------------	----------------------------

Designated States (Regional): AT BE DE DK ES FR GB IT LU NL SE

CH 682854	A5		G06F-003/023	Based on patent WO 9106049
-----------	----	--	--------------	----------------------------

CA 2044283	A		G06F-003/023	
------------	---	--	--------------	--

... has two keyboards **configuration devices for selection of key signal encoder and control units for each working station**

...Abstract (Basic): can be configured in advance for data processing systems, such as computers. It has two **keyboards**, one or several **printed circuit boards**, electronic circuits and corresp. electric

switching elements. The entry device has electronic preselection elements that can be controlled by means of **mechanical** switches on the **printed circuit boards** and that allow the **keyboard** to be optimally adapted to various fields of application, considerably easing the blind and rhythmic operation of the **keyboard** with ten fingers during a working session...

...The entry device has left and right parts **mechanically** separated from each other and capable of being moved at will in relation to each other. They are both provided with keys, **mechanical** switches and electronic circuits. The keys can be **coupled** for coding purposes, enabling code signals to be generated. First and second switching keys are **coupled** to switches. The switches are directly **coupled** to coding units, by control lines, or they are **coupled** to one or several preselection elements that allow a number of additional coding units to ...

...can be used for wide range of applications without significantly degrading rapid, rhythmic operation of **keyboard** with ten fingers without looking at keys...

...Title Terms: **KEYBOARD** ;

24/3,K/14 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008455975 \*\*Image available\*\*

WPI Acc No: 1990-342975/199046

XRPX Acc No: N90-262289

**Custom keyboard for computer or calculator - has interchangeable coded key pad assemblies alternately attachable to user definable keyboard to enable programmable keyboard functions**

Patent Assignee: HEWLETT-PACKARD CO (HEWP )

Inventor: FINKLE T W; SWANSON R M

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 396963	A	19901114	EP 90107849	A	19900425	199046 B
JP 3015127	A	19910123	JP 90119671	A	19900508	199110
US 5150118	A	19920922	US 89348826	A	19890508	199241
			US 90629059	A	19901214	
EP 396963	A3	19920429	EP 90107849	A	19900425	199329
EP 396963	B1	19960306	EP 90107849	A	19900425	199614
DE 69025641	E	19960411	DE 625641	A	19900425	199620
			EP 90107849	A	19900425	

Priority Applications (No Type Date): US 89348826 A 19890508; US 90629059 A 19901214

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

EP 396963	A				
-----------	---	--	--	--	--

Designated States (Regional): DE FR GB

US 5150118	A	14	H03M-011/02	Cont of application US 89348826
------------	---	----	-------------	---------------------------------

EP 396963	B1 E	16	H01H-013/70	
-----------	------	----	-------------	--

Designated States (Regional): DE FR GB

DE 69025641	E		H01H-013/70	Based on patent EP 396963
-------------	---	--	-------------	---------------------------

**Custom keyboard for computer or calculator...**

...has interchangeable coded key pad assemblies alternately attachable to user definable keyboard to enable programmable keyboard functions

...Abstract (Basic): Coded interchangeable key pad assemblies are alternately installed on a **keyboard** so that one of a variety of programmable sets of **keyboard** functions is enabled for selection by user actuation of the keys. Each key pad assembly has a durable construction and is securely **attachable** to the remainder of the **keyboard** .

...Each key pad assembly is installed on the remainder of the **keyboard** and interacts with the system with which the **keyboard** interacts, preferably a programmable system, to provide a custom key panel for the user so

...Abstract (Equivalent): Coded interchangeable key pad assemblies are alternately installed on a **keyboard** so that one of a variety of programmable sets of **keyboard** functions is enabled for selection by user actuation of the keys. Each key pad assembly has a durable construction and is securely **attachable** to the remainder of the **keyboard** .

...Each key pad assembly is installed on the remainder of the **keyboard** and interacts with the system with which the **keyboard** interacts, preferably a programmable system, to provide a custom key panel for the user so...

...panel (10) configured by one of a plurality of interchangeable key pad assemblies, comprising: a **printed circuit board** (30) having a plurality of sets of conductive elements (28) applied to the surface of

...plurality of recesses positioned opposite the plurality of sets of conductive elements (28) of the **printed circuit board** (30); a plurality of elastomeric keys (14, 16) located in line with the plurality of recesses in the sheet (26) and at a distance from the **printed circuit board** (30), each key having a conductive member (24) for closing the set of conductive elements (28) on the **printed circuit board** (30) in line with the key (14, 16); each recess forming a diaphragm which acts...

...space each associated conductive member (24) above each set of conductive elements (28) on the **printed circuit board** (30) in line with the recess, except when a particular elastomeric key (14, 16) is...

...actuatable key decoding means (16), the key decoding means (16) being arranged for actuation by **coupling** of an interchangeable keypad assembly (18) to the plurality of elastomeric keys (14, 16); and...

...user actuatable means (20, 50, 52, 14) after the interchangeable key pad assembly (18) is **coupled** to the switch means (12); and key encoding means (22) independent of the at least...

...for actuating the key decoding means (16) when the interchangeable key pad assembly (18) is **coupled** to the plurality of elastomeric keys (14, 16); whereby the interchangeable key pad assembly (18

...Abstract (Equivalent): Coded interchangeable key pad assemblies are alternately installed on a **keyboard** so that one of a variety of programmable sets of **keyboard** functions is enabled for selection by user actuation of the keys. Each key pad assembly has a durable construction and is securely **attachable** to the remainder of the

**keyboard** . Each key pad assembly is installed on the remainder of the **key - board** and interacts with the sytem with which the **keyboard** interfaces, pref. a programmable system, to provide a custom key panel for the user so...

...the keys. ADVANTAGE - Cutom key panel is less prone to damage than overlay, is securely **attached** , and is flexible to **mechanical** , and is flexible to **mechanical** configuaration of keys. Improved human interface...  
...Title Terms: **KEYBOARD** ;

24/3,K/15 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008337694 \*\*Image available\*\*  
WPI Acc No: 1990-224695/199029  
Related WPI Acc No: 1993-134816  
XRPX Acc No: N90-174318

**Tongue activated communications controller - has intra-oral transmitter which encodes signal differently depending on tongue position on key pad fitted onto roof of mouth**

Patent Assignee: ZOFCOM INC (ZOFC-N)  
Inventor: FORTUNE D; ORTIZ J E  
Number of Countries: 019 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9007249	A	19900628				199029 B
CA 2005703	A	19900616				199035
AU 9048068	A	19900710				199039
CA 2005703	C	19960507	CA 2005703	A	19891215	199628

Priority Applications (No Type Date): US 88285771 A 19881216

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9007249	A			
				Designated States (National): AU FI JP KR NO SU
				Designated States (Regional): AT BE CH DE DK ES FR GB IT LU NL SE
CA 2005703	C		G08C-017/00	

...Abstract (Basic): The tongue-activated communications controller includes an intra-oral transmitter assembly having a **keyboard** (36) with several tongue activated positions (38) for encoding a signal. The signal is encoded...

...e.g. from a radio, to a remote receiver. The assembly includes a two-sided **printed circuit board** (20). The first side (22) includes electronics for transmitting signals and the second side (24) ...

...decoding and for forming a set of instructions to operate a particular device, which is **connected** to the microcomputer...

...USE - By persons having quadriplegia due to spinal cord injuries and neuromuscular disorders. To operate **mechanical** device. (37pp  
Dwg.No.4/13)

24/3,K/16 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008299719      \*\*Image available\*\*  
WPI Acc No: 1990-186720/199025  
XRPX Acc No: N90-145242

**Picture display repetition method for video tape reproduction - involves microprocessor in system informing user as to processing condition and carrying out selected key function**

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU )

Inventor: WOO J S; WOO J

Number of Countries: 005    Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3940256	A	19900613				199025 B
GB 2227596	A	19900801	GB 89277891	A	19891208	199031
JP 2165492	A	19900626	JP 89232694	A	19890907	199031
DE 3940256	C	19901213				199050
US 5047878	A	19910910	US 89412009	A	19890925	199139
KR 9202944	B	19920410	KR 8816326	A	19881208	199304
GB 2227596	B	19930707	GB 8927789	A	19891208	199327

Priority Applications (No Type Date): KR 8816326 A 19881208; JP 89232694 A 19890907

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
GB 2227596	B	22	G11B-015/03	
KR 9202944	B		G11B-027/00	

...Abstract (Basic): 7) by the user, a brightness/contrast unit (4) for level setting, a logic and **mechanical** unit (5) for tape loading and unloading, and a remote operation unit (6) which senses...

...impulses. Initial values are stored in random-access memory, a replay key function is processed, **mechanical** operation is instigated and the system finally is stabilised. ADVANTAGE - Only software need be modified...

...any desired portion of the tape, without introduction of external hardware or modification of the **printed circuit board**, and reprodn...

...Abstract (Equivalent): module (2). There is a first step which, on switching on the power, resets all **connections** and the content of a RAM, sets initial values, controls the interruption and at the...

...There is a second step which checks any input through a repeat key on the **keyboard** (7) and then possesses the repeat function and there is a third step which checks...

...Abstract (Equivalent): a third step which checks mode and, if the present mode involves a **mechanism** operation, controls the **mechanism** operation; and...

...Abstract (Equivalent): key function. A third step checks the mode, and, if the present mode accompanies a **mechanism** of operation, controls the **mechanism** operation. A fourth step switches the mode and checks the sensor and emergency to stabilize...

24/3,K/17      (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008262234      \*\*Image available\*\*  
WPI Acc No: 1990-149235/199020  
XRPX Acc No: N90-115686

**Miniature bar code reader scan module - has light source that oscillates to scan beam across target**

Patent Assignee: PHOTOGRAPHIC SCIENC (PHOT-N); PHOTOGRAPHIC SCI CORP (PHOT-N)

Inventor: BOLES J A; EASTMAN J M

Number of Countries: 013    Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 368254	A	19900516	EP 89120625	A	19891107	199020    B
US 5015831	A	19910514	US 88267873	A	19881107	199122
EP 368254	A3	19920318	EP 89120625	A	19891107	199326
EP 368254	B1	19960306	EP 89120625	A	19891107	199614
DE 68925862	E	19960411	DE 625862	A	19891107	199620
			EP 89120625	A	19891107	
ES 2087857	T3	19960801	EP 89120625	A	19891107	199637

Priority Applications (No Type Date): US 88267873 A 19881107

Patent Details:

Patent No    Kind    Lan    Pg    Main    IPC    Filing    Notes

EP 368254	A						
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI NL SE							
EP 368254	B1	E	13	G06K-007/10			
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI NL SE							
DE 68925862	E			G06K-007/10		Based on patent EP 368254	
ES 2087857	T3			G06K-007/10		Based on patent EP 368254	

**Miniature bar code reader scan module...**

...Abstract (Basic): The module has two **printed circuit boards** . A light beam source (18); such as a laser diode is mounted on one board  
...

...USE/ADVANTAGE - Miniature size allows incorporation in portable terminals and **keyboards** to provide scanning capabilities. (5pp Dwg.No.1/11)

...Abstract (Equivalent): pivot axis (71,126,162) nd having at least two elements of conductive material electrically **connecting** said boards, an electrical current operated source (18;104;114,163) providing a light beam (30,110) said source being mounted on and **connected** to the wiring on said first (12;102;164) board, means (90,92,94,128...

...wiring on said first board (12,102,164) and second board (50;112,166) electrically **connected** to each other exclusively via said elements of said flexure means...

...Abstract (Equivalent): The scan module has at least two **printed circuit boards** on at least one of which a source of a light beam, such as a...

...from target. Miniature size of scan module enables it to be incorporated e.g. in **keyboards** or terminals and provides them with ability to read various symbols, particularly **bar codes**.

...Title Terms: **BAR** ;

24/3,K/18      (Item 14 from file: 350)  
DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

008084654      \*\*Image available\*\*

WPI Acc No: 1989-349766/198948

Related WPI Acc No: 1993-160536

XRPX Acc No: N89-266090

**Piezoelectric switch element for keyboard - has both poles on side away from casing, connected to circuit within casing by anisotropic conductor**

Patent Assignee: MAKASH ADVANCED PIEZO TECHNOLO (MAKA-N); MAKASH ADV PIEZO TE (MAKA-N)

Inventor: ROSENBERG A; YEHESEKEL M; YEHESEKEI M

Number of Countries: 015    Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 343685	A	19891129	EP 89109546	A	19890526	198948 B
US 4896069	A	19900123	US 88199701	A	19880527	199011
JP 3184220	A	19910812	JP 89134448	A	19890526	199138
EP 343685	B1	19940316	EP 89109546	A	19890526	199411
DE 68913808	E	19940421	DE 613808	A	19890526	199417
			EP 89109546	A	19890526	
ES 2050183	T3	19940516	EP 89109546	A	19890526	199423

Priority Applications (No Type Date): US 88199701 A 19880527

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 343685	A	E	9		
				Designated States (Regional):	AT BE CH DE ES FR GB GR IT LI LU NL SE
US 4896069	A		7		
EP 343685	B1	E	11	H03K-017/96	
				Designated States (Regional):	AT BE CH DE ES FR GB GR IT LI LU NL SE
DE 68913808	E			H03K-017/96	Based on patent EP 343685
ES 2050183	T3			H03K-017/96	Based on patent EP 343685

**Piezoelectric switch element for keyboard - ...**

**...has both poles on side away from casing, connected to circuit within casing by anisotropic conductor**

...Abstract (Basic): The poles are **connected** to a **printed circuit board** (28) within the casing by an anisotropically conductive elastomeric **connector** which also protects the element from physical shock at its upper face. The **connector** is formed by alternate conductive (268) and insulating (266) strips, whereby short-circuiting of the...

...Abstract (Equivalent): A piezoelectric switch comprising: casing means (22) for receiving an external **mechanical** force; piezoelectric means (24) for sensing the external **mechanical** force received by said casing means (22) and converting said force to an electrical signal, said piezoelectric means (24) having one side **mechanically connected** to said casing means (22); conductive means (26) disposed adjacent to and in contact with...

...and a negative contact (242) and in that said conductive means comprises an anisotropic elastomeric **connector** (26...

...Abstract (Equivalent): A piezoelectric switch includes a casing for receiving an external **mechanical** force, a piezoelectric ceramic for sensing the external **mechanical** force received by the casing and converting the force to an electrical signal. One side of ceramic is **connected** to the casing. Another side has both the positive and the negative poles. A conductive rubber **connector** is disposed adjacent to



and in contact with the ceramic for conducting the electrical signal...  
...Title Terms: **KEYBOARD** ;

**24/3,K/19** (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

008021230 \*\*Image available\*\*  
WPI Acc No: 1989-286342/198940  
XRPX Acc No: N89-218626

**Keyboard for data processing terminals - has moulded frame to locate keys according to function with circuit board for electrical connections and surrounding cover**

Patent Assignee: MANNESMANN KIENZLE GMBH (MANS ); DIGITAL-KIENZLE  
COMPUTERSYSTEME GMBH & CO KG (DIGI ); DIGITAL-KIENZLE COMPUTERSYSTEME  
GMBH (DIGI )

Inventor: BLASER P

Number of Countries: 009 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3827430	C	19891005	DE 3827430	A	19880812	198940 B
EP 354340	A	19900214	EP 89111945	A	19890630	199007
US 5001307	A	19910319	US 89392574	A	19890810	199114
EP 354340	B1	19950308	EP 89111945	A	19890630	199514

Priority Applications (No Type Date): DE 3827430 A 19880812

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

DE 3827430	C		7		
------------	---	--	---	--	--

EP 354340	A	G			
-----------	---	---	--	--	--

Designated States (Regional): CH FR GB IT LI NL SE

EP 354340	B1	G	8	H01H-013/70	
-----------	----	---	---	-------------	--

Designated States (Regional): CH FR GB IT LI NL SE

**Keyboard for data processing terminals...**

**...has moulded frame to locate keys according to function with circuit board for electrical connections and surrounding cover**

...Abstract (Basic): A **keyboard** of the type used with data processing terminals has a moulded frame (6) that locates...

...the groups. The keys are mounted on a circuit board (12) that provides the electrical **connectors** .

...

...The lower base of the **keyboard** (10) is also produced as a moulding. This is formed with a number of projecting lugs (23) that **latch** into position on the top cover to hold it and the board in position. Other

...

...ADVANTAGE - **Keyboard** has simple sub assemblies to aid mfr

...Abstract (Equivalent): **Keyboard** with a circuit board (12) carrying keys (11) and a housing (6,10), said housing (6,10) consisting of a front frame (6) and a bottom part (10), mutually associated **latching** elements (18/21 and 23/25, 24/26) being moulded on the front frame (6

...

...manner that by joining the front frame with the bottom part and interengagement of the **latching** members (18/21 and 23/25, 24/26) the

circuit board is supported without clearance

...Abstract (Equivalent): The **keyboard** comprises a housing having a front frame and a base part which are **connectable** with one another by **latch** elements to support a **printed circuit board** in a floating manner. The elements are formed at the front frame and the base...

...of the front frame with the base part and the engagement or interlocking of the **latch** elements holds an intermediately line support of the PCB (12...

...The **printed circuit board** carries the keys of the **keyboard**. The **printed circuit board** is assembled to the front frame via several aligning elements...

...ADVANTAGE - Optimising construction to meek different conditions of use of **keyboards**.

Title Terms: **KEYBOARD** ;

24/3,K/20 (Item 16 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

007907716 \*\*Image available\*\*  
 WPI Acc No: 1989-172828/198923  
 XRPX Acc No: N89-131866

**Four quadrant touch pad for CRT display - has rectangular PCB with four opto-electronic switches centred on four respective board edges**

Patent Assignee: MICRO RESEARCH INC (MICR-N)

Inventor: NEWELL D E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4831359	A	19890516	US 88144550	A	19880113	198923 B

Priority Applications (No Type Date): US 88144550 A 19880113

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4831359	A	6		

**Four quadrant touch pad for CRT display...**

...Abstract (Basic): A manually operable **touch pad** generates steering signals and enable signals for manipulating an image on a CRT display or...

...the image or object being driven can be positioned using appropriate hand/eye coordination. The **touch pad** comprises a box-like mounting base supporting a rectangular **printed circuit board** on which are mounted four opto-switches centred on the respective edges. The **printed circuit board** also supports other circuit components and the necessary interconnecting conductors...

...Overlaying the base in covering relation with respect to the **printed circuit board** is a moulded plastic top having a centre post which depends downwardly from the underside...

...card and adaptive to be secured to the centre of the base by a flexible **coupling**. Depending downwardly from the underside of the cover are four opaque projections positioned to selectively...

...ADVANTAGE - Less subject to **mechanical** wear, has precise switching point...

24/3,K/21 (Item 17 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007797513 \*\*Image available\*\*  
WPI Acc No: 1989-062625/198909  
XRPX Acc No: N89-047790

Printed circuit board marking device using projected light - uses  
**processor** coupled to fault tester to control projection device for  
**light beam**

Patent Assignee: MUT-GMBH (MUTG-N)

Inventor: STOLLNER D

Number of Countries: 004 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 304943	A	19890301	EP 88113973	A	19880826	198909 B
DE 3728818	A	19890316	DE 3728818	A	19870828	198912
DE 3728818	C	19890608	DE 3728818	A	19870828	198923

Priority Applications (No Type Date): DE 3728818 A 19870828

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 304943 A G 8

Designated States (Regional): DE FR GB IT

DE 3728818 A 6

Printed circuit board marking device using projected light...

...uses **processor** coupled to fault tester to control projection device  
for **light beam**

...Abstract (Basic): deflection elements for a light beam (3) directed onto  
a defined coordinate point of the **printed circuit board** (4) for  
visual indication of a detected fault. The faults are supplied by a  
circuit...

...USE - For automatised testing and repair of **printed circuit boards** .

...Abstract (Equivalent): The identification number of the defective unit  
can be **keyboard** entered (6) or read in **bar** code form (8). The  
computer issues commands to a projection unit (2) that uses a...

...Title Terms: **COUPLE** ;

24/3,K/22 (Item 18 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007658680 \*\*Image available\*\*  
WPI Acc No: 1988-292612/198841  
XRAM Acc No: C88-129752  
XRPX Acc No: N88-222092

**Shock resistant** printed circuit board assembly - has leaded  
**component** attached with **adhesive**, and leads bonded to terminal pads  
with **flexible electrically conductive adhesive**

Patent Assignee: KEY TRONIC CORP (KEYT-N)

Inventor: ROMEIKE G L; TARA V M; TATE H L; VOCTURE J L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4774634	A	19880927	US 86820239	A	19860121	198841 B

Priority Applications (No Type Date): US 86820239 A 19860121

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4774634	A	14		

**Shock resistant printed circuit board assembly...**

**...has leaded component attached with adhesive, and leads bonded to terminal pads with flexible electrically conductive adhesive**

**...Abstract (Basic): Shock and vibration resistant printed circuit board assembly comprising a printed circuit substrate; a first layer of electrically conductive ink screened onto...**

**...leads can be used and the system lends itself to full automation. The flexible lead connections accommodate vibrational and bending forces, while the rigid mechanical bonds accommodate shock forces. The mounted circuit components may be eg external pin connectors, integrated circuits, resistors, light emitting diodes, capacitors, etc. Also assembly can provide external metallic strips...**

**...circuit traces. The system is useful eg in the prodn. of circuits for incorporation into keyboards.**

**...Title Terms: ATTACH ;**

**24/3,K/23 (Item 19 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

007653211 \*\*Image available\*\*

WPI Acc No: 1988-287143/198841

XRPX Acc No: N88-217908

**Operating key for data processor input keyboard - has locating pin and radial locking nose preventing rotation and limiting axial displacement of push button head**

Patent Assignee: DIGITAL-KIENZLE COMPUTERSYSTEME GMBH (KIEN ); MANNESMANN KIENZLE GMBH (MANS )

Inventor: FESENMEIER H; ZUMKELLER O

Number of Countries: 006 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 285928	A	19881012	EP 88104813	A	19880325	198841 B
US 4924045	A	19900508	US 89396750	A	19890818	199023
EP 285928	B1	19931215	EP 88104813	A	19880325	199350
DE 3886248	G	19940127	DE 3886248	A	19880325	199405
			EP 88104813	A	19880325	

Priority Applications (No Type Date): DE 87U5193 U 19870407

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 285928	A	G	5	

Designated States (Regional): CH DE IT LI SE

EP 285928 B1 G 5 H01H-013/70

Designated States (Regional): CH DE IT LI SE

**Operating key for data processor input keyboard -**

...Abstract (Equivalent): A key for a value introduction **keyboard** , comprising a key base (7) integrally moulded with a guide sleeve (9) and, on the other hand, formed with **latching** means (10, 11) for fixing the key base on a circuit board (1), with a...

...limit the stroke of the key in its non-actuated state, characterised in that the **latching** means (10, 11) provided on the opposite side of the guide sleeve (9) on the...

...a stud (13) is moulded to the side of the key base (7) where the **latching** means (10, 11) are formed, that the shaft (23) is slotted, and that a nose...

...Abstract (Equivalent): side to be engageable with the guidance sleeve. A pressure spring is effective between the **keyboard** base and the push-button head. A ferrite core is **attached** to the lower side of the push-button head to engage in respective holes in the **keyboard** base and the **printed circuit board** . A stop limits the stroke of the push button in a non-actuated state, the...

...located about the aperture, a lug being integrally moulded on the same side of the **keyboard** base as the snap-in device. The lug is formed with a guidance aperture through...

...one of the resilient shaft segments to cooperate with a stop face formed in the **keyboard** base. The push-button head further has a finger moulded integrally on the lower side...

...to prevent relative turning of the head and base. USE - Pushbutton for a value input **keyboard** .

(

...Title Terms: **KEYBOARD** ;

24/3,K/24 (Item 20 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007571591 \*\*Image available\*\*  
WPI Acc No: 1988-205523/198829  
XRPX Acc No: N88-156861

**Switch matrix keyboard for use in data terminal device - provides lead-through operation of keys to instruct operator as to which key to depress next in transaction**

Patent Assignee: NCR INT INC (NATC ); NCR CORP (NATC )

Inventor: HEYS G

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8805209	A	19880714	WO 87US3322	A	19871217	198829 B
EP 295289	A	19881221	EP 88900642	A	19871217	198851
US 4796007	A	19890103	US 87622	A	19870105	198904
JP 1501741	W	19890615	JP 87500799	A	19871217	198930
EP 295289	B1	19920701	WO 87US3322	A	19871217	199227
			EP 88900642	A	19871217	
DE 3780167	G	19920806	DE 3780167	A	19871217	199233
			WO 87US3322	A	19871217	

EP 88900642 A 19871217  
 Priority Applications (No Type Date): US 87622 A 19870105  
 Patent Details:  
 Patent No Kind Lan Pg Main IPC Filing Notes  
 WO 8805209 A E 19  
     Designated States (National): JP  
     Designated States (Regional): DE FR GB  
 EP 295289 A E  
     Designated States (Regional): DE FR GB  
 US 4796007 A 8  
 EP 295289 B1 E 11 H01H-013/70 Based on patent WO 8805209  
     Designated States (Regional): DE FR GB  
 DE 3780167 G H01H-013/70 Based on patent EP 295289  
     Based on patent WO 8805209

**Switch matrix keyboard for use in data terminal device...**

...Abstract (Basic): The switch matrix **keyboard** has an assembly (29) included a support (30) having several illuminated devices (62) mounted on...

...Abstract (Equivalent): A switch matrix **keyboard** (18) for use in a data terminal device, including a **keyboard** cover means (20, 22, 26) for supporting a switch matrix assembly (29) and including a...

...Abstract (Equivalent): The micro-motion **keyboard** assembly comprises a water-proof portion which includes a sheet of printed key tips mounted ...

...key tips. Two switch-matrix electrical conductors are separated by an insulator sheet mounted on **printed circuit board**. Light-emitting diodes are mounted in the **printed circuit board** for selectively lighting one of the key tips when operated. I-C circuit elements are secured to the lower surface of the PCB and **connected** to the electrical conductors forming an electrical circuit associated with the operation of the **keyboard**.

...

...A key operated switching **mechanism** extends through the **keyboard** to sense light emitted from elements mounted in the lower surface of the PCB for controlling the operating mode of the **keyboard**.

...Title Terms: **KEYBOARD** ;

24/3,K/25 (Item 21 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

007074115

WPI Acc No: 1987-074112/198711

XRPX Acc No: N87-056159

**Cassette connector with pivot mechanism - has receptacle housing with pair of spaced opposing pins that enter and engage slots formed on cassette sides**

Patent Assignee: THOMAS & BETTS CORP (THOB )

Inventor: SONOBE T

Number of Countries: 012 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 214762	A	19870318	EP 86306104	A	19860807	198711 B
AU 8660950	A	19870212				198715

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 202447	A	19861126	EP 86104774	A	19860408	198648 B
CN 8602660	A	19861015				198731
CA 1250957	A	19890307				198914
EP 202447	B	19900704				199027
DE 3672391	G	19900809				199033
KR 9002325	B	19900411				199108
US 5043910	A	19910827	US 89427241	A	19891025	199137 N

Priority Applications (No Type Date): JP 8582237 A 19850419; US 89427241 A 19891025

#### Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 202447	A	E 22		

Designated States (Regional): DE FR GB IT NL

EP 202447 B  
Designated States (Regional): DE FR GB IT NL

...Abstract (Basic): The testing system has a central processing unit (12) which is **connected** to a CRT (16), a printer (24) and a floppy disc drive (15). The CPU is also **connected** to a coordinate detector (13) which detects and memorises the X-7 coordinates points and address numbers of the test points in a PCB (14). The CPU is also **connected** with a waveform detector (18) which picks up analog signals at the test point by...

...A waveform obtaining circuit (23) is **connected** to a waveform converter (21) and memory (22) which processes the signals to form base...

...Abstract (Equivalent): A **printed circuit board** function testing system having CPU provided with data display means for signals obtained by **keyboard** operation to set and command measuring conditions and to process, comprising coordinate signal detecting means (13) **connected** with said CPU (12) for determining X-Y coordinates and address numbers of a plurality...

...in advance in a bead board (14) of a PC board; waveform detecting means (18) **connected** with said CPU (12) to receive from it said coordinate signal, being equipped with tracking **mechanism** (18k, 18j) to drive a probe (18i) to X-Y coordinate point corresponding to said...

...said base PC board and said subject PC board being placed in position above said **mechanism**, said probe when raised contacting said test point, and analogue signal being received when said probe makes contact with said test point; waveform converting and memorising means (23) **connected** with said waveform detecting means (18), processing and converting into digital said analogue signal commands...

...stored in said CPU (12) with which said waveform converting and memorising means (23) is **connected**. (13pp)

24/3,K/27 (Item 23 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

004674138

WPI Acc No: 1986-177480/198628

XRPX Acc No: N86-132546

**Mail-room and business systems computation and control module - has range of connectors giving additional memory capacity to microprocessor and**



**allowing for future expansion**

Patent Assignee: PITNEY BOWES INC (PITB )

Inventor: MANDULEY F

Number of Countries: 008 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 186881	A	19860709	EP 85116374	A	19851220	198628 B
US 4649491	A	19870310	US 84684409	A	19841220	198712
CA 1240064	A	19880802				198835
EP 186881	B	19910612				199124
DE 3583225	G	19910718				199130

Priority Applications (No Type Date): US 84684409 A 19841220

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

EP 186881	A	E 27		
-----------	---	------	--	--

Designated States (Regional): CH DE FR GB LI NL

EP 186881	B			
-----------	---	--	--	--

Designated States (Regional): CH DE FR GB LI NL

... **has range of connectors giving additional memory capacity to microprocessor and allowing for future expansion**

...Abstract (Basic): A large **printed circuit board** accommodates the components and **connectors** including an integrated circuit microprocessor (20). **Connectors** (40,50,60) **connect** the microprocessor (20) to the memory modules (42,52,62). One **connector** (40) gives access to 8 to 24 milobytes of read-only-memory (ROM), mounted on...

...Another **connector** (50) **connects** 8 to 16 milobytes of programmable-read-only memory (PROM), on a paddle board (52...

...storing postal rate charts and zip-to-zone information which requires periodic updating. The third **connector** (60) allows 8 to 16 kilobytes on a paddle board (62) for further expansion. **Connectors** (70 and 80) are provided to allow for an operator interface in terms of **keyboard** and local display and also for a remote display...

...USE - In digital business and mail room systems where both power and **mechanical** interconnections are made in a single, simple state.

...Abstract (Equivalent): including an energy source (30-500; 515;535) for supplying power to said system; b) **connector** means (90-200, 100-200, 220, 420; 90-400; 100-400; 70-500, 120-500...

...c) a common power distribution bus (550) to which each of said sub-systems is **mechanically** and electrically **connected** so that the power from the or each energy source is shared by each of said sub-systems, said sub-systems being **mechanically** interconnected to form a single unit. (15pp)

...Abstract (Equivalent): The module includes a microprocessor and associated circuitry, **connectors** for **connecting** ROM, which store firmware for controlling the microprocessor, and PROM, which store postal rate charts. An input/output **connector**, a serial interface for communications with postage meters, a non-volatile memory for storing parameters specific to particular units and an auxiliary input/output **connector** are also included. The auxiliary input/output **connector** is driven by selected, memory mapped interface circuitry mounted on the PROM card. The module...

...Switches responsive to the microprocessor, are provided for sequentially

energising various **connectors** and interfaces, so as to reduce power requirements. Systems comprising a number of computation and...  
...Title Terms: **CONNECT** ;

**24/3,K/28** (Item 24 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004604720  
WPI Acc No: 1986-108064/198617  
XRPX Acc No: N86-079596

**Portable computer with housing - has member for tilting housing in forward direction on surface on which housing rests**

Patent Assignee: DATA GENERAL CORP (DATG )  
Inventor: BOUDREAU M; NIGRO A R  
Number of Countries: 007 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No.	Kind	Date	Week
EP 178800	A	19860423				198617 B
US 4742478	A	19880503	US 84652219	A	19840919	198820
CA 1256189	A	19890620				198931

Priority Applications (No Type Date): US 84652219 A 19840919

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 178800	A	E 16		

Designated States (Regional): DE FR GB IT SE

...Abstract (Basic): The computer housing contains computer electronics, at least one disc drive, a **keyboard** and a display monitor. The housing has a base (15), a rear top cover (19...

...base, and defining, along with the base, a chamber adapted to hold the electrical and **mechanical** components of the computer. The front of the base is adapted to hold the **keyboard** and a front top cover (17) is hinged on the rear top cover and holds...

...ADVANTAGE - Provides convenient **keyboard** and viewing angle for use on desk surface.

...Abstract (Equivalent): cover, a rear top cover and a foot door. The front top cover is pivotally **attached** to the front of the rear top cover and the rear top cover is fixedly **attached** to the base. Computer electronics (i.e. **printed circuit boards** ), and two floppy disc drives are mounted inside the housing on the base at the rear and a full size **keyboard** is mounted inside the housing on the base at the front. A battery pack is...

...When the front top cover is pivoted open the display screen is viewable and the **keyboard** is accessible. When the foot door is in a closed position the keys on the **keyboard** are at the optimum angle for typing with the portable computer resting on the lap...

...user and when the foot door is in an open position the keys on the **keyboard** are at the optimum angle for typing with the portable computer resting on a desk...

**24/3,K/29** (Item 25 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004585224

WPI Acc No: 1986-088568/198614

XRPX Acc No: N86-064738

**Portable data acquisition system for bar code reader - has pistol grip reader coupled to data acquisition system with battery power pack**

Patent Assignee: ECKHARDT U (ECKH-I)

Inventor: ECKHARDT U

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3433970	A	19860327	DE 3433970	A	19840915	198614 B
DE 3433970	C	19870619				198724

Priority Applications (No Type Date): DE 3433970 A 19840915; DE 340749 A 19840915

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 3433970	A	11		

**Portable data acquisition system for bar code reader...**

**...has pistol grip reader coupled to data acquisition system with battery power pack**

...Abstract (Basic): The system has a housing with a front panel (1) that has a **keyboard** (2) and a display (3). Within the housing is a **printed circuit board** (62) that has a socket **connector** (92b) at the bottom end of the board. A removable battery pack (B) is **connected** to the housing by a plug and socket (91a, 91b) **connector** on the top edge...

...A plug (92a) and cable (94) **connects** with a pistol grip reading unit (LP). A laser source (LA) has the output directed by a mirror (AL) onto the surface of a label containing a **bar** code pattern (BL) the reflected signals are transmitted over the cable to the data acquisition...

...Title Terms: **BAR** ;

**24/3,K/30 (Item 26 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

004540740

WPI Acc No: 1986-044084/198607

XRPX Acc No: N86-032224

**Electronic access controller e.g. for motor vehicles - unlocks system if correct code has been entered via Hall effect keyboard fixed to inner surface of windscreen**

Patent Assignee: NAT RES DEV CORP (NATR )

Inventor: HEWIT J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2162806	A	19860212	GB 8518299	A	19850719	198607 B

Priority Applications (No Type Date): GB 8418647 A 19840721; GB 8518299 A 19850719

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

... unlocks system if correct code has been entered via Hall effect keyboard fixed to inner surface of windscreen

...Abstract (Basic): a number of Hall Effect devices each set-in a circular aperture drilled in a printed circuit board. The device terminals are connected to appropriate tracks on the printed circuit board

...

...USE/ADVANTAGE - For entrance to building. Avoids disadvantage of relative ease required to 'pick' mechanical system. (5pp Dwg No. 4/4)

...Title Terms: **KEYBOARD** ;

24/3,K/31 (Item 27 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

004519389

WPI Acc No: 1986-022733/198604

XRAM Acc No: C86-009440

XRPX Acc No: N86-016632

**Flexible directly solderable conductive compsns. with good adhesion - comprise silver, polyvinyl chloride-polyvinyl acetate copolymer, epoxy resin and hardener, esp. for printed circuit boards**

Patent Assignee: ELECTRO MATERIALS CORP (ELEQ ); ROHM & HAAS CO (ROHM )

Inventor: MARTIN F W; SHAHBAZI S

Number of Countries: 016 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 169059	A	19860122	EP 85305081	A	19850717	198604 B
JP 61043644	A	19860303				198615
US 4595604	A	19860617	US 84631973	A	19840718	198627
EP 169059	B	19880831				198835
CN 8600151	A	19870722				198838
DE 3564742	G	19881006				198841
CA 1254323	A	19890516				198924
KR 9300776	B1	19930204	KR 855126	A	19850718	199417

Priority Applications (No Type Date): US 84631973 A 19840718

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 169059	A	E	19		
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE					
EP 169059	B	E			
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE					
KR 9300776	B1			C08L-027/06	

... comprise silver, polyvinyl chloride-polyvinyl acetate copolymer, epoxy resin and hardener, esp. for printed circuit boards

...Abstract (Basic): conductivity, solderability and flexibility characteristics. It may be applied to flexible substrates, e.g. membrane key boards, and is esp. for fuse on printed circuit boards.

...Abstract (Equivalent): USE - For replacing mechanical end connectors on flexible polymer thick film circuits. (6pp)g

24/3,K/32 (Item 28 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004340147

WPI Acc No: 1985-167025/198528

XRPX Acc No: N85-125710

**Magnetically-operated illuminated switch panel - has reed-relay contacts shielded behind steel screen, being activated by external magnet**

Patent Assignee: DANGLOT B (DANG-I)

Inventor: DANGLOT B

Number of Countries: 008 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2556127	A	19850607	FR 83319245	A	19831201	198528 B
EP 204050	A	19861210	EP 85401081	A	19850531	198650
EP 204050	B	19900328				199013
DE 3576879	G	19900503				199019 N

Priority Applications (No Type Date): FR 8319245 A 19831201; FR 83319245 A 19831201; EP 85401081 A 19850531

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

FR 2556127	A		8		
------------	---	--	---	--	--

EP 204050	A	F			
-----------	---	---	--	--	--

Designated States (Regional): BE CH DE GB IT LI NL

EP 204050	B	F			
-----------	---	---	--	--	--

Designated States (Regional): BE CH DE GB IT LI NL

...Abstract (Basic): The switch contacts are amounted perpendicularly to **printed circuit boards** (18,20) which also form a chassis for the assembly. A steel plate (2) which...

...building security schemes for controlling opening of doors. It is robust, and has no moving **mechanism** that may be susceptible to vandalism...

...Abstract (Equivalent): A **keyboard** comprising a case (1) containing a device comprising switches with strip contacts which are sensitive...

...contacts (15,16) coinciding approximately with the normal to the plane of the window, which **keyboard** is characterised by the fact that, where it allows the formation of electrical command codes...

...19) of insulating material, provided with printed circuits (18, 20) forming a frame and electrical **connections** with the contacts (15,16). (6pp)

24/3,K/33 (Item 29 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004204902

WPI Acc No: 1985-031782/198505

XRPX Acc No: N85-023534

**Non-contacting keyboard employing transformer element - has switches connectable into X-Y matrix, differential transformer and magnetically permeable actuators**

Patent Assignee: BERNIN V M (BERN-I)

Inventor: BERNIN V M

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4494109	A	19850115	US 81229175	A	19810128	198505 B
CA 1199992	A	19860128				198609

Priority Applications (No Type Date): US 81229175 A 19810128; US 78946346 A 19780902

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4494109	A	12		

**Non-contacting keyboard employing transformer element...**

**...has switches connectable into X-Y matrix, differential transformer and magnetically permeable actuators**

...Abstract (Basic): Noncontacting transformer switches are interconnected into **keyboard** networks which include insertable magnetic core, shorted turn or combination actuators. Windings are provided, and...

...single turn primary windings and their interconnecting network are printed on one side of a **printed circuit board**, and single turn secondary windings and their interconnecting network are printed in proper alignment on...

...ADVANTAGE - Avoids **mechanical** wear...

...Title Terms: **KEYBOARD** ;

**24/3,K/34 (Item 30 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

004119270

WPI Acc No: 1984-264811/198443

XRPX Acc No: N84-197837

**Hand ticketing machine with thermographic printing head - uses adjacent printed circuit boards for providing internal connections**

Patent Assignee: MONARCH MARKING SYSTEMS INC (MONR )

Inventor: GOODWING B E; HAMISCH P H; MAKLEY J A; MISTYURIK J; NEUHARD L D; GOODWIN B E; MISTYURIK J D

Number of Countries: 007 Number of Patents: 046

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3413685	A	19841018	DE 3413685	A	19840411	198443 B
US 4477305	A	19841016	US 83484344	A	19830412	198444
US 4479843	A	19841030	US 84582337	A	19840228	198446
FR 2544283	A	19841019				198447
GB 2139985	A	19841121	GB 849469	A	19840412	198447
AU 8425662	A	19841018				198449
US 4490206	A	19841225	US 84582339	A	19840228	198502
US 4498947	A	19850212	US 84582336	A	19840228	198509
US 4511422	A	19850416	US 84582338	A	19840228	198518
US 4544434	A	19851001	US 8464	A	19840910	198542
US 4544434	A	19851001	US 8464	A	19840910	198542
US 4544434	A	19851001	US 8464	A	19840910	198542
US 4544434	A	19851001	US 8464	A	19840910	198542
US 4544434	A	19851001	US 8464	A	19840910	198542

FR 2571689	A	19860418				198622
FR 2571690	A	19860418				198622
FR 2571691	A	19860418				198622
FR 2571692	A	19860418				198622
GB 2171668	A	19860903	GB 868848	A	19860411	198636
GB 2171669	A	19860903	GB 868849	A	19860411	198636
GB 2171668	B	19870304				198709
GB 2139985	B	19870311				198710
GB 2171669	B	19870311				198710
CA 1223558	A	19870630				198730
CA 1223559	A	19870630				198730
CA 1223560	A	19870630				198730
CA 1223561	A	19870630				198730
DE 3448192	A	19870813	DE 3448192	A	19840411	198733
AU 8775072	A	19871015				198748
CA 1232578	A	19880209				198810
CA 1236801	A	19880517				198824
CA 1243280	A	19881018				198846
DE 3448192	C	19891019				198942
DE 3448398	A	19901115	DE 3448398	A	19840411	199047
DE 3448399	A	19901115	DE 3448399	A	19840411	199047
DE 3448400	A	19901122	DE 3448400	A	19840411	199048
DE 3448401	A	19901122	DE 3448401	A	19840411	199048
DE 3448402	A	19901129	DE 3448402	A	19840411	199049
DE 3448410	A	19910307	DE 3448410	A	19840411	199111
DE 3413685	C	19910718				199129
DE 3448398	C2	19930527	DE 3413685	A	19840411	199321
			DE 3448398	A	19840411	
DE 3448400	C2	19930930	DE 3413685	A	19840411	199339
			DE 3448400	A	19840411	
DE 3448399	C2	19931021	DE 3448399	A	19840411	199342
DE 3448410	C2	19940203	DE 3413685	A	19840411	199405
			DE 3448410	A	19840411	
DE 3448401	C2	19940310	DE 3413685	A	19840411	199409
			DE 3448401	A	19840411	
DE 3448402	C2	19940421	DE 3413685	A	19840411	199414
			DE 3448402	A	19840411	

Priority Applications (No Type Date): US 84582339 A 19840228; US 83484341 A 19830412; US 83484344 A 19830412; US 83484345 A 19830412; US 84582336 A 19840228; US 84582337 A 19840228; US 84582338 A 19840228; US 84649083 A 19840910; US 84649084 A 19840910; US 85715859 A 19850325

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3413685	A		106		
DE 3448398	C2	10		B65C-011/02	Div ex application DE 3413685 Div ex patent DE 3413685
DE 3448400	C2	7		B65C-011/02	Div ex application DE 3413685 Div ex patent DE 3413685
DE 3448399	C2	7		B65C-011/02	Div in patent DE 3413685
DE 3448410	C2	6		B41J-002/335	Div ex application DE 3413685 Div ex patent DE 3413685
DE 3448401	C2	8		B65C-011/02	Div ex application DE 3413685 Div ex patent DE 3413685
DE 3448402	C2	13		B65C-011/02	Div ex application DE 3413685 Div ex patent DE 3413685

... uses adjacent printed circuit boards for providing internal connections

...Abstract (Basic): apply pressure sensitive labels releasably secured to

a carrier web, comprising: a housing, a handle **connected** to the housing, the housing having spaced sides, means on the housing for supporting a...

...to the printing means, to the delaminating means, and to the web advancing means, a **keyboard** on the housing, an array of **printed circuit boards** electrically **connecting** the **keyboard** and the print head, wherein the circuit board array includes a first circuit board in underlying relationship to the **keyboard**, second and third circuit boards disposed on opposite sides and inclined relative to the first circuit board, means including a flexible ribbon **connector** for electrically **connecting** the first circuit board to the second circuit board, means including a flexible ribbon **connector** for electrically **connecting** the first circuit board to the third circuit board, a fourth circuit board, means including a flexible ribbon **connector** for electrically **connecting** the second circuit board and the fourth circuit board, the second and fourth circuit boards...

...disposed in face-to-face relationship, a fifth circuit board, means including a flexible ribbon **connector** for electrically **connecting** the third circuit board and the fifth circuit board, the third and fifth circuit boards...

...The endless carrier web to which the tickets are **attached** is indexed via an electric drive motor by a length corresp. to one ticket. The...

...The printing head lead is controlled via an input **keyboard** incorporated in the handgrip and **coupled** to it via a printed circuit. Two further pairs of printed circuits on respective sides...

...the latter are used to control the remaining junctions of the ticketing machine and to **couple** each operating stage to the electrical supply

...Abstract (Equivalent): apply pressure sensitive labels releasably secured to a carrier web, comprising: a housing, a handle **connected** to the housing, the housing having spaced sides, means on the housing for supporting a...

...to the printing means, to the delaminating means, and to the web advancing means, a **keyboard** on the housing, an array of **printed circuit boards** electrically **connecting** the **keyboard** and the print head, wherein the circuit board array includes a first circuit board in underlying relationship to the **keyboard**, second and third circuit boards disposed on opposite sides and inclined relative to the first circuit board, means including a flexible ribbon **connector** for electrically **connecting** the first circuit board to the second circuit board, means including a flexible ribbon **connector** for electrically **connecting** the first circuit board to the third circuit board, a fourth circuit board, means including a flexible ribbon **connector** for electrically **connecting** the second circuit board and the fourth circuit board, the second and fourth circuit boards...

...disposed in face-to-face relationship, a fifth circuit board, means including a flexible ribbon **connector** for electrically **connecting** the third circuit board and the fifth circuit board, the third and fifth circuit boards...

...Abstract (Equivalent): The hand held labeller has a housing, a handle **connected** to the housing, a print head having electrically selectable printing elements, and a delaminator for...

...a source of electrical energy is in the handle. The housing and the



handle are **connected** by a breakaway **connection** to enable separation of the handle and the housing upon application of excessive force to...

...The breakaway **connection** includes a yieldable member that mounts electrical **connectors** .

...

...The electrical **connectors** make the electrical circuit between the electrical energy source and the print head when the handle is in place but the electrical **connectors** enable detachment of the handle and automatically break the electrical **connection** when the handle is detached...A hand-held labeller has a handle **connected** to the housing, a print head having electrically selectable printing elements, a delaminator for delaminating...

...The housing and the handle are **connected** by a break-away **connection** to enable separation of the handle and the housing upon application of excessive force to...

...The breakaway **connection** includes a yieldable member mounting electrical **connectors** .

...

...The electrical **connectors** make the electrical circuit between the electrical energy source and the print head when the handle is in place, but the electrical **connectors** enable detachment of the handle and automatically break the electrical **connection** when the handle is detached. (-pp...

...engageable handle adapted to hold a source of electrical energy and a **mechanism** for slidably detachably **coupling** the handle and the housing. The handle is positionable in an **attached** position on the housing or in a detached position in which the handle is separated...

...comprises an electrically selectable print head having a number of printing elements, a delaminator, a **mechanism** for applying printed labels, and a roller for advancing the carrier web...prints on labels releasably secured to a carrier web. A delaminator, applicator and web feeding **mechanism** are provided. The latter includes an electric motor for advancing the carrier web, a detachable handle containing a power supply. Circuitry electrically **connecting** the power supply, **keyboard** and print head...

...A **keyboard** and the head are electrically **connected** by circuitry, including two PCB's. One extends horizontally between the housing walls whilst a second, plug **connected** to the first, extends vertically. The boards are held resiliently in the housing...The housing includes a housing section having openings. Keys of a **keyboard** project through openings and a display is visible through the opening. An applicator has a...

...Title Terms: CONNECT

24/3,K/35 (Item 31 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004067914  
WPI Acc No: 1984-213455/198434  
XRPX Acc No: N84-159817

**Computer for electronics mail terminal - has printed circuit controlling printer tape drive and keyboard , and character display and modem**

Patent Assignee: POST TECHN INC (POST-N)

Inventor: FISH R; YURCHENCO J R

Number of Countries: 016 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8403187	A	19840816	WO 84US165	A	19840207	198434 B
AU 8425774	A	19840830				198446
EP 135565	A	19850403	EP 84901039	A	19840207	198514
US 4524242	A	19850618	US 83465040	A	19830208	198527
US 4549825	A	19851029	US 84633609	A	19840723	198546

Priority Applications (No Type Date): US 83465040 A 19830208

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

WO 8403187	A	E 47		
------------	---	------	--	--

Designated States (National): AU BR JP KP SU

Designated States (Regional): AT BE CH DE FR GB LU NL SE

EP 135565	A	E		
-----------	---	---	--	--

Designated States (Regional): AT BE CH DE FR GB LI NL SE

... **has printed circuit controlling printer tape drive and keyboard , and character display and modem**

...Abstract (Basic): A **keyboard** plugs into a **printed circuit board** from above and is supported at the sides by stand-offs in a base housing...

...cover housing (88) mates with moulded-in features of the base housing. The tape drive **mechanism** includes cassette guides (98) that are moulded into the base and cover housings and a...

...to position a carriage which holds a thermal print head. An optical encoder and a **mechanical** switch provide position feedback of carriage position to the control circuitry. A motor advances the paper through a worm gear train with position feedback provided by a **mechanical** switch. The printer carriage is a moulded plastic runner to which the toothed belt and the thermal print head **attaches** . A metal clip provides an easily removable mounting for the head...

...Abstract (Equivalent): telephone network. A base housing (20) has mountings for all the components. These include a **printed circuit board** (PCB28) which includes circuitry for interfacing with the telephone network, computer circuitry and control circuitry. The PCB is electronically **coupled** to the telephone network and is **coupled** to a power supply (48) for converting standard AC power to low voltage DC power...

...A printer (22) pref. of thermal variety, is electrically **coupled** to the PCB. A tape drive (118) is electrically **coupled** to the PCB and records messages onto and reads messages from a tape cassette. There is a **keyboard** (12) for inputing messages and a cover (88) fixed to the base housing. Separate claims are included for a tape drive **mechanism** and a printer...

...The mail terminal includes a **keyboard** a multi-character display a thermal printer a tape drive and communication and control circuitry. The tape drive and printer mount to molded-in features of a base housing. A **printed circuit board** containing the communication and control circuitry and the display is mounted to molded-in features of

the base housing. The **keyboard** plugs into the **printed circuit board** from above and is supported at the sides by stand-offs in the base housing. A cover housing mates with molded-in features of the base housing. The tape drive **mechanism** includes cassette guides and that are molded into the base and cover housings and a...

...to position a carriage which holds a thermal print head. An optical encoder and a **mechanical** switch provide position feedback of carriage position to the control circuitry...

...motor advances the paper through a worm gear train with position feedback provided by a **mechanical** switch. The printer carriage is a molded plastic runner to which the toothed belt and the thermal print head **attaches**.

...Title Terms: **KEYBOARD** ;

24/3,K/36 (Item 32 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

004051202

WPI Acc No: 1984-196744/198432

XRPX Acc No: N84-146885

**Cordless subscriber telephone set - includes base unit linked to network in secure radio communication with mobile unit**

Patent Assignee: PHILIPS GLOEILAMPENFAB NV (PHIG ); PORTENSEIGNE (PORT-N)

Inventor: HIMMELBAUE A J; POUBELLE R J P

Number of Countries: 006 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 115362	A	19840808	EP 84200066	A	19840120	198432 B
JP 59138135	A	19840808	JP 848676	A	19840123	198438
US 4535200	A	19850813	US 83562209	A	19831216	198535
EP 115362	B	19870610				198723
DE 3464186	G	19870716				198729

Priority Applications (No Type Date): FR 831036 A 19830124

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
-----------	------	--------	----------	--------------

EP 115362	A	F 12		
-----------	---	------	--	--

Designated States (Regional): DE FR GB SE

EP 115362	B	F		
-----------	---	---	--	--

Designated States (Regional): DE FR GB SE

...Abstract (Basic): The telephone system includes a base unit comprising an interface for **connection** to the telephone network, a radio module for transmission and reception, and a control unit...

...Abstract (Equivalent): optionally movable part, respectively, the base unit comprising primarily an interface module (100) for the **connection** to the telephone network (30) and a radio-electric module (120) for transmitting to the...

...the mobile unit (20) comprises a second processing module (240) itself formed by a programming **keyboard** (241), a second microprocessor (243) and a second memory (242), in that the base unit...

...interconnecting them during the previous storing in the memory by the user via the programming **keyboard** of the mobile unit of a personal,

characteristic code which is stored in the memories...  
 ...Abstract (Equivalent): There is at least one outwardly projecting  
**connection** contact in the form of a contact pin...  
 ...For **mechanically** mounting the housing of the switch there is provided  
 at least one **latching** element comprising a **latch** for negagement in  
 a receiving opening of a supporting board or print board or the...  
 ...The electric contact with the conductor paths of the **printed circuit**  
**board** is established by an electrically conductive pressure spring  
 upon the pinlike outwardly projecting **connection** contact...  
 ...The spring in the **latched** position of the at least one **latching**  
 element is urged into contact with the associated electric conductor  
 path...

24/3,K/37 (Item 33 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

003944147

WPI Acc No: 1984-089691/198415

XRPX Acc No: N84-066917

**Modular electronic controller or regulating arrangement - has  
 rack-mounted circuit cards with top-mounted programming unit**

Patent Assignee: KOYO ELTRN INDS CO (KOYO-N)

Inventor: NAOI K

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3331035	A	19840405	DE 3331035	A	19830827	198415 B
DE 3331035	C	19881103				198844

Priority Applications (No Type Date): JP 82U130208 U 19820828

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 3331035	A	13		

...Abstract (Basic): the cards provide inputs, outputs, central processor,  
 power supply and a programming unit containing a **keyboard** and display  
 ...  
 ...Each circuit card has an end plate terminated with end **connectors**  
**coupled** to the assembled circuit. The front edges of the cards contain  
 a **latching** element which locates on the main housing to provide  
 retention. The programming unit has a strip **connector** in the base  
 which locates with a socket in one of the cards. The unit...  
 ...Abstract (Equivalent): The electronic system is constructed from a  
 number of **printed circuit boards** that are rack mounted in a frame  
 81). Typically the circuit boards are used for...  
 ...Each **printed circuit board** locates on guides in the housing slot  
 and is retained by a **latch** on the end section (30). The **latch** is in  
 the form of a moulded projection (33) that has a finger grip that...

24/3,K/38 (Item 34 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

003012890

WPI Acc No: 1981-B2900D/198107

**Capacitance** keyboard with integral metal springs - has capacitor plates co-operating with fixed capacitor plates on circuit board giving improved hysteresis

Patent Assignee: ALPHAMERIC KEYBOARDS LTD (ALPH-N)

Inventor: CRAIGWOOD D; CROSS L R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 1584345	A	19810211				198107 B

Priority Applications (No Type Date): GB 765428 A 19760211

**Capacitance** keyboard with integral metal springs...

...Abstract (Basic): The **keyboard** has a number of key stations and a **printed circuit board** (37) with a number of capacitor plates on it. Each key station has a key...

...strip each resiliently urging the end of a key upwards. The movable parts form electrically **connected** but separately - movable key operated capacitor plates which cooperates with the fixed capacitor plates on...

...be of magnetic material and attracted to a support to give a snap action. The **keyboards** have an increased capacitance compared with conventional types and an improved translation of electrical hysteresis to **mechanical** hysteresis.

...Title Terms: **KEYBOARD** ;

24/3,K/39 (Item 35 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

002380947

WPI Acc No: 1980-J7415C/198040

**Low profile** keyboard operator - has orthogonal matrix of mechanically movable row and column matrix sections disposed over keyboard

Patent Assignee: SAVIN CORP (SAVN )

Inventor: ALTERTON L E; BROWN R W; ECKERLE J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4222675	A	19800916				198040 B

Priority Applications (No Type Date): US 78883916 A 19780306

**Low profile** keyboard operator...

...has orthogonal matrix of mechanically movable row and column matrix sections disposed over keyboard

...Abstract (Basic): Used with a machine, such for example, the typewriter has a **keyboard** with keys. The casing or housing of the unit support auxiliary keys adapted to be operated to close switches to make certain **connections** on a **printed circuit board**. A cable may **connect** the circuit board to a minicomputer, which may feed signals back directly to our operator...

...Title Terms: **KEYBOARD** ;

**24/3,K/40** (Item 36 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

002151244

WPI Acc No: 1979-H1182B/197933

**Sync. phase detected keyboard - applies capacitor coupling prior to full key switch travel and uses floating electrical coupling plate**

Patent Assignee: AMKEY INC (AMKE-N)

Inventor: GOVE D C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4163222	A	19790731				197933 B

Priority Applications (No Type Date): US 77837653 A 19770929; US 76662195 A 19760227

**Sync. phase detected keyboard - ...**

**...applies capacitor coupling prior to full key switch travel and uses floating electrical coupling plate**

**...Abstract (Basic):** For capacitance **coupled keyboard** data entry a key switch, synchronous circuitry and phase detector are in combination to yield a unique encoder output signal for a **keyboard matrix**. Capacitance **coupling** is effected prior to full key switch travel, that is, **coupling** actuation prior to full key down travel and deactuation subsequent to manual key switch release...

**...The key switch has a floating electrical coupling plate inhibited from dropping to a printed circuit board by a fixably positioned magnet. Coupling actuation providing mechanical hysteresis is effected upon key depression by a spring forcing the plate from the magnet...**

**...multiplexer, in synchronisation with an encoder are driven by a clock counter to scan the keyboard matrix.**

...Title Terms: **KEYBOARD** ;

**24/3,K/41** (Item 37 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

001959579

WPI Acc No: 1978-J8852A/197845

**Electronic miniature computer with full computing capability - using main printed circuit computer board and separate control board**

Patent Assignee: HITACHI LTD (HITA )

Inventor: NISHINO H; OHSAWA A; ONODERA T K

Number of Countries: 003 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2818130	A	19781102				197845 B
DE 2857412	A	19800117				198004
DE 2857413	A	19800131				198006

US 4253143	A	19810224	198111
US 4308561	A	19811229	198203
US 4364112	A	19821214	198301
JP 60068749	B	19850419	198522

Priority Applications (No Type Date): JP 7746845 A 19770425

...Abstract (Basic): The main section is on a single **printed circuit board**. A **mechanically** separate but electrically **connected** control element has a control **keyboard** and display. The main board contains a central processing and control circuit, a main store...

24/3,K/42 (Item 38 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

001922365

WPI Acc No: 1978-F1620A/197826

**Paralleled output self-encoding keyboard - has conductors with min. or max. areas corresponding to binary zeros and ones**

Patent Assignee: MOTOROLA INC (MOTI )

Inventor: MCNAU S R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4088994	A	19780509				197826 B

Priority Applications (No Type Date): US 76678810 A 19760421

**Paralleled output self-encoding keyboard -**

...Abstract (Basic): A standard format **keyboard** provides a paralleled, binary-coded output corresponding to an alphanumeric character or a function when the appropriate key head is depressed. A signal is **coupled** through the key **mechanism** to a set of parallel conductors which are positioned to be approached by a portion of the key **mechanism**.

...

...min. or max. areas corresponding to binary zeros and ones, whereby the level of signal **coupled** also corresponds to a binary code for the character or function key depressed. Detectors are **coupled** to at least one of the conductive portions on the **printed circuit board** for detecting a change of output signal level caused by the relative motion of the conductive portion of the key **mechanism** and the **printed circuit board**.

...Title Terms: **KEYBOARD** ;

24/3,K/43 (Item 39 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

001705865

WPI Acc No: 1977-E2352Y/197721

**Electronic calculator construction method - uses locating pins for display window, keyboard and circuit board, which are mechanically deformed to hold components in place**

Patent Assignee: BOWMAR INSTR CORP (BOWM-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 1009830	A	19770510				197721 B

Priority Applications (No Type Date): US 72292130 A 19720925

... uses locating pins for display window, keyboard and circuit board, which are mechanically deformed to hold components in place

...Abstract (Basic): the components in a shock resistant structure. It includes the first step of mounting a **keyboard** within a casing shell having a number of spaced apart locating pins disposed along interior side edges of the casing shell. The locating pins are deformed to form a locking **connection** with the **keyboard** to hold it in operative position within the casing...

...view opening of the casing. The window locating pins are similarly deformed to make a **mechanical connection** permanently holding the translucent tinted window in position. Finally the **printed circuit board** is located within the casing and held by the same method.

...Title Terms: **KEYBOARD** ;

24/3,K/44 (Item 40 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

001497399

WPI Acc No: 1976-G0319X/197627

**Pushbutton dialling key board with signal generators - has resilient foil contacts on electronic assembly aligned with pushbutton assembly**

Patent Assignee: SOC TELEPH PICART (TELE-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2285764	A	19760521				197627 B

Priority Applications (No Type Date): FR 7431311 A 19740917

**Pushbutton dialling key board with signal generators...**

...Abstract (Basic): The numerical **keyboard** for a telephone instrument provides separate electronic and **keyboard** assemblies **connected** by 'klaxon' contacts. The separation of **keyboard** and electronic assemblies economises in spares provision. The klaxon type spring contacts on the electronic assembly use resilient foils. The electronic assembly (1) shaped like dial **mechanism** can produce either digital or tone signals on two round **printed circuit boards** (2), (3). The cover (6) carries the spring contacts which made with keys on the separate **keyboard** (16). The assembly includes spacers for separating the **printed circuit boards** and the contact carrying cover. The **keyboard** is also suitable for use in a computer input device.

?



28/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

015717173 \*\*Image available\*\*  
WPI Acc No: 2003-779373/200373  
XRPX Acc No: N03-624532

**Mobile electronic device, has display surface placed above keyboard ,  
such that surface viewed through transparent area of cover is moved  
between closed or open position by kinematic chain or gear of cover**

Patent Assignee: NOKIA CORP (OYNO )  
Inventor: EROMAEKI M; MAEAETTAE E  
Number of Countries: 100 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200381880	A1	20031002	WO 2002IB833	A	20020321	200373 B

Priority Applications (No Type Date): WO 2002IB833 A 20020321

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200381880	A1	E	23	H04M-001/02	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU  
ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

**Mobile electronic device, has display surface placed above keyboard ,  
such that surface viewed through transparent area of cover is moved  
between closed or open position by kinematic chain or gear of cover**

Abstract (Basic):

... The drawing shows steps by which the folding mechanism of the  
mobile electronic device works by moving the cover...

28/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

010365573 \*\*Image available\*\*  
WPI Acc No: 1995-266935/199535  
XRPX Acc No: N95-204950

**Handy terminal appts. for placing menu sheets over keyboard - has cover  
holding mechanism to hinge with transparent cover in closed state over  
surface of main part**

Patent Assignee: TOKYO ELECTRIC CO LTD (TODK )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7169369	A	19950704	JP 93317784	A	19931217	199535 B

Priority Applications (No Type Date): JP 93317784 A 19931217

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7169369	A		4	H01H-013/70	

... has cover holding mechanism to hinge with transparent cover in

closed state over surface of main part

...Abstract (Basic): each operation key of the flat keyboard. The menu sheet is placed over a flat **keyboard**. Over the menu sheet, the **transparent cover** is placed. The **transparent cover** is hinged to the main part by a cover holding **mechanism** (13) which can be attached or detached...

...Title Terms: **MECHANISM** ;

28/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

009198583 \*\*Image available\*\*

WPI Acc No: 1992-326015/199240

XRPX Acc No: N92-249218

**Aid to keyboard touch typing instruction - uses keys colour coded in groups with matching coloured sleeves or markers on students fingers**

Patent Assignee: GELLER S (GELL-I)

Inventor: GELLER S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2672413	A1	19920807	FR 911406	A	19910201	199240 B

Priority Applications (No Type Date): FR 911406 A 19910201

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
FR 2672413	A1		6 G09B-013/00	

...Abstract (Basic): key caps (1) and coloured sleeves or rings (2) on the student's fingers. The **keyboard** is equipped with key caps (1) **covered** with a **transparent** coloured plastic film indicating the key groups appropriate to each finger of each hand...

...2) or adhesive marker in the colour appropriate to the group of keys. The space **bar** (10) is not marked and is operated by the thumbs which also are not marked...

28/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

004497294

WPI Acc No: 1986-000638/198601

XRPX Acc No: N86-000473

**Opto-electronic module with LCD - has pushbutton membrane switches in foil keyboard, with contact segments on LCD support facing cover plate**

Patent Assignee: ETAB HURET ET SES F (HURE-N); FICHTEL & SACHS AG (FICH )

Inventor: FEY R

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3422273	A	19851219	DE 3422273	A	19840615	198601 B
GB 2162355	A	19860129	GB 8515107	A	19850614	198605
FR 2566157	A	19851220				198606
IT 1183894	B	19871022				199040

Priority Applications (No Type Date): DE 3422273 A 19840615

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
DE 3422273 A 9

...Abstract (Basic): conductive tracks (11, 15,17) on the surface, while a push-button switch (3) is **mechanically** coupled to the LCD element. Several such switches are incorporated in a foil keyboard, whose...

...surrounds the top contact segments on the support plate of the LCD element. Pref. the **keyboard** diaphragm also sealingly **covers** the LCD **cover** plate, while consisting of **transparent** material at least in the region of the cover plate...

**28/3,K/5 (Item 5 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

003929530

WPI Acc No: 1984-075074/198412

XRAM Acc No: C84-032384

XRPX Acc No: N84-056434

**Programmable injection infusion appts. - is controlled by microprocessor with programme and parameter memories and keyboard**

Patent Assignee: TAMSEN A (TAMS-I)

Inventor: TAMSEN A

Number of Countries: 014 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8400894	A	19840315	WO 83SE320	A	19830909	198412 B
SE 8205181	A	19840409				198417
AU 8320306	A	19840329				198423
EP 118525	A	19840919	EP 83902916	A	19830909	198438
JP 59501698	W	19841011	JP 83503009	A	19830909	198447
IT 1169806	B	19870603				198948

Priority Applications (No Type Date): SE 825181 A 19820910

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 8400894 A E 24

Designated States (National): AU JP US

Designated States (Regional): AT BE CH DE FR GB LU NL SE

EP 118525 A G

Designated States (Regional): AT BE CH DE FR GB LI NL

...Abstract (Basic): display when pressed without a preceding input of new parameter values. There is pref. a **mechanical** and electronic lock for a **transparent cover** over the syringe which deactivates the **keyboard** such that only display and stop functions can be activated with the lock on.

?

File 9:Business & Industry(R) Jul/1994-2003/Dec 09  
     (c) 2003 Resp. DB Svcs.  
 File 15:ABI/Inform(R) 1971-2003/Dec 09  
     (c) 2003 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2003/Dec 09  
     (c) 2003 The Gale Group  
 File 20:Dialog Global Reporter 1997-2003/Dec 10  
     (c) 2003 The Dialog Corp.  
 File 47:Gale Group Magazine DB(TM) 1959-2003/Dec 09  
     (c) 2003 The Gale group  
 File 75:TGG Management Contents(R) 86-2003/Nov W5  
     (c) 2003 The Gale Group  
 File 80:TGG Aerospace/Def.Mkts(R) 1986-2003/Dec 09  
     (c) 2003 The Gale Group  
 File 88:Gale Group Business A.R.T.S. 1976-2003/Dec 09  
     (c) 2003 The Gale Group  
 File 98:General Sci Abs/Full-Text 1984-2003/Oct  
     (c) 2003 The HW Wilson Co.  
 File 112:UBM Industry News 1998-2003/Dec 10  
     (c) 2003 United Business Media  
 File 141:Readers Guide 1983-2003/Oct  
     (c) 2003 The HW Wilson Co  
 File 148:Gale Group Trade & Industry DB 1976-2003/Dec 10  
     (c)2003 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2003/Dec 09  
     (c) 2003 The Gale Group  
 File 264:DIALOG Defense Newsletters 1989-2003/Dec 09  
     (c) 2003 The Dialog Corp.  
 File 484:Periodical Abs Plustext 1986-2003/Nov W5  
     (c) 2003 ProQuest  
 File 553:Wilson Bus. Abs. FullText 1982-2003/Oct  
     (c) 2003 The HW Wilson Co  
 File 570:Gale Group MARS(R) 1984-2003/Dec 10  
     (c) 2003 The Gale Group  
 File 608:KR/T Bus.News. 1992-2003/Dec 10  
     (c)2003 Knight Ridder/Tribune Bus News  
 File 620:EIU:Viewswire 2003/Dec 09  
     (c) 2003 Economist Intelligence Unit  
 File 613:PR Newswire 1999-2003/Dec 10  
     (c) 2003 PR Newswire Association Inc  
 File 621:Gale Group New Prod.Annou.(R) 1985-2003/Dec 10  
     (c) 2003 The Gale Group  
 File 623:Business Week 1985-2003/Dec 09  
     (c) 2003 The McGraw-Hill Companies Inc  
 File 624:McGraw-Hill Publications 1985-2003/Dec 09  
     (c) 2003 McGraw-Hill Co. Inc  
 File 634:San Jose Mercury Jun 1985-2003/Dec 09  
     (c) 2003 San Jose Mercury News  
 File 635:Business Dateline(R) 1985-2003/Dec 09  
     (c) 2003 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2003/Dec 09  
     (c) 2003 The Gale Group  
 File 647:CMP Computer Fulltext 1988-2003/Dec W1  
     (c) 2003 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2003/Dec W1  
     (c) 2003 IDG Communications  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30

? ds

Set	Items	Description
S1	452223	TOUCHPAD? OR TOUCH()PAD? OR KEYBOARD? OR KEY()BOARD? OR TOUCHSCREEN? OR TOUCH()SCREEN?
S2	13518	(SECURITY OR ANTILOCK OR ANTITHEFT OR ANTI-LOCK? OR ANTI-THEFT) (3N)CABLE??
S3	96552	PCBA OR PRINT?()CIRCUIT?()BOARD?
S4	6117035	PROTECT? OR WATERPROOF OR WATER-PROOF OR RAINPROOF OR RAIN-PROOF OR WATER() (RESISTAN? OR REPEL? OR PROTECT? OR PROOF)
S5	3408096	LATCH? OR BAR OR MECHAN?
S6	263729	CASH()REGISTER? OR KIOSK? OR (VENDING OR DISPENSING OR DISPENSER) (3N) (MACHINE OR TERMINAL OR UNIT OR APPARATUS OR DEVICE? OR BOOTH? ?)
S7	851166	SEAL?? OR SEALING OR ADHESIVE OR GASKET?
S8	251	S1(5N) (PLASTIC OR SEETHROUGH OR SEE-THROUGH OR TRANSLUCENT? OR TRANSPARENT?) (3N) (COVER? OR SHIELD?)
S9	0	S8(S)S2(S)S3
S10	0	S8(S)S3
S11	0	S8(S)S6
S12	74	S8(S)S4
S13	0	S12 AND PY=2002:2003
S14	40	RD S12 (unique items)
S15	0	S1(S)S2(S)S3
S16	490	S1(S)S3
S17	0	S16(S) (SECURITY OR ANTILOCK OR ANTITHEFT OR ANTI-LOCK? OR - ANTI-THEFT) (3N)S5
S18	19	S16(S)S7
S19	3	S18(S)S5
S20	3	RD S19 (unique items)
S21	3	S20 NOT S14
S22	3	RD S21 (unique items)
S23	65	S1(S)S2
S24	0	S23(5N)S5

14/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

3227727 Supplier Number: 03227727 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Compact Capacitive Keyboard Weathers Humidity And Dust**  
**(Cirque Corp introduces Pocket Keyboard for Palm and Palm-compatible PDAs)**  
Electronic Design, v 49, n 15, p 32  
July 23, 2001  
DOCUMENT TYPE: Journal ISSN: 0013-4872 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 268

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...wear out. It has an MTBF of 1 FIT ((10.sup.7) hours). The ABS **plastic cover** is **water - resistant**, and the **keyboard** itself can operate in 100% humidity. Its operating temperature ranges from -30(degrees) to 65...

14/3,K/2 (Item 2 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2116426 Supplier Number: 02116426 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Adding to the Mix**  
**(North American PVC sales in 1997 were 14 bil pounds, up 5.6% from 1996)**  
Chemical Market Reporter, v 253, n 14, p FR18  
April 06, 1998  
DOCUMENT TYPE: Journal ISSN: 0090-0907 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1337

ABSTRACT:

...hefty portion of this comes from Asia, driven by the booming personal computer industry where **plastic** components from **keyboards** to circuit **coverings** must be made with flame retardants.

...

14/3,K/3 (Item 3 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

1023398 Supplier Number: 01023398 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Spill-Resistant Keyboard**  
**(Identity Systems Technology has introduced IDKB101-SR, a keyboard protected from crumbs and beverage spills)**  
Newsbytes News Network, p N/A  
May 23, 1994  
DOCUMENT TYPE: Journal (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 233

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...common problem.

Allan Haynie, Identity's senior vice president, claims that the company's new **keyboard** is an improvement over the soft molded **plastic covers** already available to **protect keyboards**. "Users don't like **plastic covers** that detract from the comfortable feel and responsiveness of the keys and slow the operator...

**14/3,K/4 (Item 1 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

02245927 86915902  
**Two-Fisted Communicator**  
Manes, Stephen  
Forbes PP: 132 Nov 12, 2001  
ISSN: 0015-6914 JRNL CODE: FBR  
WORD COUNT: 607

...TEXT: bulky than the I300.

I've played only with prototypes, but I do like that **keyboard** and am even fonder of the **transparent -window flip cover** that **protects** the screen when you stick the thing in your pocket. Samsung engineers, take note: A...

**14/3,K/5 (Item 2 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00770166 94-19558  
**Industrial automation under extreme conditions: Extra-hard hardware**  
Anonymous  
Business Mexico v3n9 PP: 16-19 Sep 1993  
ISSN: 0187-1455 JRNL CODE: BUM  
WORD COUNT: 1126

...TEXT: screens to allow employee-machine interaction. For situations that demand manual data input, there are **keyboards** with a limited number of buttons. Or a **plastic** film can **cover** a regular **keyboard** to **protect** it from the elements.

In addition to "industrial strength" construction, most industrial computers are equipped...

**14/3,K/6 (Item 3 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00662924 93-12145  
**Accessories provide improved efficiency, security and maintenance for computers**  
Rowh, Mark  
Office Systems v9n12 PP: 28, 30 Dec 1992  
ISSN: 8750-3441 JRNL CODE: OFS  
WORD COUNT: 1139

...TEXT: from viewing confidential correspondence or data.

## ENVIRONMENTAL FACTORS

Some of the most valuable accessories help **protect** equipment from dust, static electricity and other threats. For example, products that prevent the accumulation of dust help **protect** computers and peripherals. These include cloth or **plastic covers** for monitors, disk drives, **keyboards** and other delicate equipment.

Although most keyboard covers are designed for times when equipment isn...

14/3,K/7 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

08976487 Supplier Number: 77828775 (USE FORMAT 7 FOR FULLTEXT)  
**Compact Capacitive Keyboard Weathers Humidity And Dust. (Cirque's Pocket Keyboard)**

Wong, William  
Electronic Design, v49, n15, p32  
July 23, 2001  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 292

... wear out. It has an MTBF of 1 FIT ((10.sup.7) hours). The ABS **plastic cover** is **water - resistant**, and the **keyboard** itself can operate in 100% humidity. Its operating temperature ranges from -30(degrees) to 65...

14/3,K/8 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

08323368 Supplier Number: 70377827  
**GoType keyboard brings welcome utility to Palm.**  
Mello, John P., Jr.  
Mass High Tech, p43(1)  
Jan 22, 2001  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

### ABSTRACT:

...the Palm handheld computer measures 9.6 inches long and 4.4 inches wide. The **keyboard** comes with a **plastic cover** for **protection**, which flips up to provide support when the Palm is being used. The GoType keyboard...

14/3,K/9 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

07349687 Supplier Number: 50095698 (USE FORMAT 7 FOR FULLTEXT)  
**DYNAMYTE RECEIVES BUSINESSWEEK DESIGN AWARD**  
Biotech Equipment Update, v6, n7, pN/A  
July 1, 1998  
Language: English Record Type: Fulltext  
Article Type: Article  
Document Type: Newsletter; Trade



Word Count: 468

... comes in a durable, rubberized case to lessen the impact of shocks, and includes a **plastic cover** to **protect** its **touch screen**.

Commenting on the award, Sunrise Medical chairman and president Richard H. Chandler said, "We are...

**14/3,K/10 (Item 4 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

05593805 Supplier Number: 48466794 (USE FORMAT 7 FOR FULLTEXT)

**U-Haul: Advice For Moving Personal Computers**

PR Newswire, p0504LAMFNS2

May 4, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 782

... large box using foam pads or styrofoam to protect it and hold it in place.

\* **KEYBOARD** : The **keyboard** should be boxed alone, wrapped in **plastic** with a **keyboard cover** or a piece of foam placed over the keys for **protection**.

\* **MONITOR**: When preparing the monitor for a move, first place it in a plastic bag...

**14/3,K/11 (Item 5 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

05580247 Supplier Number: 48448669 (USE FORMAT 7 FOR FULLTEXT)

**GRiD Government Systems Debuts the GRiDCASE 1580 PII - The World's Most**

**Advanced Ruggedized Laptop**

PR Newswire, p427DCM061

April 27, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 421

... weight, high- strength-to withstand high impact and to support precision-machined bay and port **covers**. The **keyboard** component is **protected** by a **transparent** rubber membrane bonded to the main casework to form a dust and **waterproof** tight seal.

GRiD also manufactures and distributes tempest-secure laptops used in the most sensitive...

**14/3,K/12 (Item 6 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

03385196 Supplier Number: 44699995 (USE FORMAT 7 FOR FULLTEXT)

**Spill-Resistant Keyboard 05/23/94**

Newsbytes, pN/A

May 23, 1994

Language: English Record Type: Fulltext

Document Type: Newswire; General Trade

Word Count: 239

... common problem.

Allan Haynie, Identity's senior vice president, claims that the company's new **keyboard** is an improvement over the soft molded **plastic covers** already available to **protect keyboards**. "Users don't like **plastic covers** that detract from the comfortable feel and responsiveness of the keys and slow the operator...

14/3,K/13 (Item 7 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

03169607 Supplier Number: 44331559 (USE FORMAT 7 FOR FULLTEXT)  
**Computer accessory molders hit jackpot**  
Plastics News, p11  
Jan 3, 1994.  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 593

LAS VEGAS - Computers have spawned a booming market for hundreds of types of **plastic** accessories.

Everything from vacuum formed polyethylene **keyboard covers** to wrist rests, disk caddies, copy holders and monitor filter screens is available to organize, assist and **protect** every computer user.

And the proprietary molders of these products are loving it.  
Allsop Inc...

14/3,K/14 (Item 8 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

01544258 Supplier Number: 41886661 (USE FORMAT 7 FOR FULLTEXT)  
**Curtis Offers Items for Computer Users**  
HFD-The Weekly Home Furnishings Newspaper, v0, n0, p80  
Feb 25, 1991  
Language: English Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; Trade  
Word Count: 473

ABSTRACT:

...mouse, while space has been left underneath for a standard size mouse pad.

A clear **plastic cover protects** the **keyboard**, and converts to a copyholder. A padded, full-length palm rest in front of the...

... mouse, while space has been left underneath for a standard size mouse pad.

A clear **plastic cover protects** the **keyboard**, and converts to a copyholder. A padded, full-length palm rest in front of the...

14/3,K/15 (Item 9 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

01367692 Supplier Number: 41621826  
**CUSTOM-ENGINEERED TOUCHSCREENS FROM ELMWOOD SENSORS PROVIDE EMI/RFI**

**PROTECTION**

News Release, pl  
Oct 22, 1990  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

**ABSTRACT:**

Elmwood Sensors Inc. has introduced a line of **transparent** resistive **touchscreens** for applications requiring EMI/RFI **protection**. Elmwood **touchscreens** can incorporate EMI/RFI **shields** to reduce electromagnetic interference. They offer an effective, low cost alternative to metal mesh shielding...

**14/3,K/16 (Item 1 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

04822659 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**How children grow to love computers... and how to protect your computer from them**

INDEPENDENT  
April 01, 1999  
JOURNAL CODE: FIND LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 912

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... that is age-appropriate.  
However, there are plastic keyboard covers available for cheap, dribble-proof **protection** if an alternative is too expensive. No gadget will be totally marmalade-proof so, in...

**14/3,K/17 (Item 2 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

01731599 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**DynaMyte Honored With BusinessWeek Design Award; Sunrise Subsidiary Wins Recognition for Communication Device**

BUSINESS WIRE  
May 20, 1998 20:5  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 503

...comes in a durable, rubberized case to lessen the impact of shocks, and includes a **plastic cover** to **protect** its **touch screen**. Commenting on the award, Sunrise Medical chairman and president Richard H. Chandler said, "We are..."

**14/3,K/18 (Item 1 from file: 47)**  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2003 The Gale group. All rts. reserv.

04131944 SUPPLIER NUMBER: 16184706 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Inside track. (Column)**  
Dvorak, John C.  
PC Magazine, v13, n15, p95(1)

Sept 13, 1994

DOCUMENT TYPE: Column

ISSN: 0888-8507

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 923 LINE COUNT: 00066

... worthiness. Seemed like a good idea. I was most impressed with Synscan Corp.'s totally **waterproof** keyboard. The vendor had it in a tub of liquid into which you'd put your hands to type. An excellent idea that replaces those clumsy **plastic keyboard covers**. Contact the U.S. office at 818-856-5160. The price for the **waterproof** keyboard is \$12.50 per keyboard, when purchased in quantities of 20,000 units. You...

14/3,K/19 (Item 2 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2003 The Gale group. All rts. reserv.

03943388 SUPPLIER NUMBER: 13968655 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The perfect accessories. (includes related articles on various PC accessories and past Editors' Choices for keyboards and sound boards)**  
**(The Perfect PC) (Cover Story)**

Jones, Mitt

PC Magazine, v12, n13, p209(10)

July, 1993

DOCUMENT TYPE: Cover Story

ISSN: 0888-8507

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 6486 LINE COUNT: 00496

... solid and substantial. Chicony adds a novel touch to its mechanical-switch model: a hard **plastic keyboard dust cover** that **protects** those precious keys from the elements. The \$99.95 Tandy 101-Key Enhanced Keyboard also...

14/3,K/20 (Item 3 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2003 The Gale group. All rts. reserv.

03380240 SUPPLIER NUMBER: 08056502 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**HIMS Technologies Inc. CachePro 386/33. (Hardware Review) (one of 22 microcomputer evaluations in 'Speed to burn: 22 of the fastest 386s.') (evaluation)**

Jones, Mitt

PC Magazine, v9, n3, p145(1)

Feb 13, 1990

DOCUMENT TYPE: evaluation

ISSN: 0888-8507

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 562 LINE COUNT: 00041

... 101-key model, has a surprisingly good feel. Its distinguishing feature, however, is a hinged **plastic cover** that **protects** the **keyboard** from dust. The idea sounds good, but once you flip the cover back, it can...

14/3,K/21 (Item 4 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2003 The Gale group. All rts. reserv.

03146618 SUPPLIER NUMBER: 06727529 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Fractured fairey tales.. (West Coast Computer Faire new product report)**

Zilber, Jon

MacUser, v4, n7, p42(1)

July, 1988

ISSN: 0884-0997

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 422

LINE COUNT: 00031

... Coleco Adam user group). Down one aisle, a bottomless cup of coffee poured over a **keyboard shielded** by a **transparent SafeSkin cover** (\$22.95 to \$27.95) that **protects** your keyboard while you type. (From SafeSkin, P.O. Box 1002, Centerville, UT 84014; (801...

**14/3,K/22 (Item 5 from file: 47)**

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2003 The Gale group. All rts. reserv.

02369565 SUPPLIER NUMBER: 02578204 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**IBM images. (evaluation of personal finance software)**

Fastie, Will

Creative Computing, v9, p312(7)

Jan, 1983

DOCUMENT TYPE: evaluation

ISSN: 0097-8140

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 4869

LINE COUNT: 00353

... system unit.

Nat Hellman III, Incorporated, has announced several accessories for the IBM PC. Their **keyboard cover** (\$12) is made of rigid, smoked **plastic** and fits neatly over the **keyboards** of IBM and several other computers and terminals. A clever little disk cover (\$8) **protects** the disk drive area from dust. A manual rack (\$24) holds six IBM manuals. Finally...

**14/3,K/23 (Item 1 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

07671468 SUPPLIER NUMBER: 16559173 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Product action line. (Brief Article)**

PC User, n250, p27(1)

Jan 11, 1995

DOCUMENT TYPE: Brief Article

ISSN: 0263-5720

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 559

LINE COUNT: 00041

... aware of a different solution, please let Product Action Line know at the address above.

**KEYBOARD COVERS**

'Where can I buy **keyboard seals** - the clear **plastic covers** that fit over **keyboards** to **protect** them from dust, liquid spills and so on?' wrote Andrew Richardson from Poynton.

The widest...

**14/3,K/24 (Item 2 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

06413141      SUPPLIER NUMBER: 13456303      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Focus on accessories. (computer peripherals)**  
Addo, Pamela  
Computer Dealer News, v9, n2, p46(2)  
Jan 25, 1993  
ISSN: 1184-2369      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 2249      LINE COUNT: 00180

... diskettes are red-hot. Griffco's Griffiths gave two thumbs-up to mouse pads, dust **covers** for monitors and **keyboards**, **plastic covers** that **protect keyboards** from water damage, and storage boxes for different types of media.

"Media storage systems are...

14/3,K/25      (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

06113595      SUPPLIER NUMBER: 12546910      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Hooleon aims for big things in little towns: keyboard device company prospers off the beaten path. (Hooleon Corp.)**  
Schneider, Paul  
Arizona Business Gazette, v112, n32, p3(1)  
August 7, 1992  
ISSN: 0273-6950      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 527      LINE COUNT: 00040

... makes keyboard-related products such as custom-imprinted keys, adhesive key-top labels, templates and **keyboard protectors** -- flexible, **plastic** membranes that **cover keyboards**, thus **protecting** them from dust, coffee spills and the like.

The company also offers key "lockouts," devices...

14/3,K/26      (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

03880747      SUPPLIER NUMBER: 07370323      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Keyboards that handle tough jobs.**  
Berardinis, Lawrence A.  
Machine Design, v61, n4, p76(7)  
Feb 23, 1989  
ISSN: 0024-9114      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT  
WORD COUNT: 3649      LINE COUNT: 00296

... to 7 X 12 (\$75) are available.  
Preh also makes an industrial PC /AT-compatible **keyboard** based on the same switch technology. Relegendable ABS **plastic** keycaps **cover** full-travel keys. The **keyboard** can withstand splashing water and is not harmed by dust (IP54). It sells for \$180. An optional enclosure raises the **protection** rating to IP-65 and the price to \$250. Other technologies  
In applications where switch...

14/3,K/27      (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

01614323

**NEW SYSTEM MEASURES ROUNDNESS/SIZE/TAPER IN ENCLOSED CONSOLE.**

NEWS RELEASE March 3, 1987 p. 11

... pushed to start the measurement process. A printer is accessible to the operator and is **protected** by a lift-off **plastic cover**. The CRT, disc drive and **keyboard** are accessible only after unlocking and removing a separate transparent cover. ...

14/3,K/28 (Item 2 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

01135411

**REVIEWS: PORTABLE COMPUTERS: EPSON PX-8 GENEVA.**

INFOWORLD November 26, 1984 p. 59,601

... Basic programming language. A slide-out handle makes it easy to carry, and a hard **plastic cover** **protects** the **keyboard**. The computer includes a clock that runs on one of Geneva's batteries when the...

... ROM capsules containing applications each consist of a standard ROM memory chip mounted in a **protective** plastic carrier that prevents the chip's contacts from being bent or damaged.

...

14/3,K/29 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

02282534 SUPPLIER NUMBER: 54187837 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Keyboard Nirvana. (Technology Information) (Brief Article)**  
Computer Gaming World, 24(1)  
May, 1999  
DOCUMENT TYPE: Brief Article ISSN: 0744-6667 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 163 LINE COUNT: 00016

It seems like such a simple idea: Take those **protective** flexible **plastic keyboard covers** found in some offices and print the controls for popular flight sims on them, making...

14/3,K/30 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

02164927 SUPPLIER NUMBER: 20515411 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Paul Cayard: seascape navigator. (satellite technology in sailboat racing)**  
**(Technology Information) (Interview)**  
Kelly, Sean  
Computer Life, v5, n5, p38(4)  
May, 1998  
DOCUMENT TYPE: Interview ISSN: 1076-9862 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2907 LINE COUNT: 00207

... Cayard: You know, we should. You would think we'd have a lot more

industrial **protection** for this equipment. But the fact is, it's pretty scary how we take care...

...water just dripping off anything that's metal because of condensation, and we have to **cover** the laptops and **keyboards** with **plastic** bags. We just type over the **plastic** bag. We really should have some kind of rubberized **keyboard cover**. We've had that on America's Cup boats, but for some reason, we don...

14/3,K/31 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01682737 SUPPLIER NUMBER: 15386066 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Spill-resistant keyboards.**  
Mallory, Jim  
Newsbytes, NEW05230002  
May 23, 1994  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 261 LINE COUNT: 00021

... common problem.  
Allan Haynie, Identity's senior vice president, claims that the company's new **keyboard** is an improvement over the soft molded **plastic covers** already available to **protect keyboards**. "Users don't like **plastic covers** that detract from the comfortable feel and responsiveness of the keys and slow the operator...

14/3,K/32 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01550573 SUPPLIER NUMBER: 13036969 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tri-Star Tri-Win 486/ISA Workstation 486 50MHz. (Hardware Review) (Five Windows Workstations) (Evaluation)**  
Rowell, Dave  
PC Sources, v3, n12, p177(1)  
Dec, 1992  
DOCUMENT TYPE: Evaluation ISSN: 1052-6579 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 609 LINE COUNT: 00044

... I/O ports; and one by ports that exist the PC through a neighboring slot **cover**.  
The Focus 2001 **keyboard** comes with a **protective plastic cover** plate that tilts up for use, although it can be removed completely if it annoys...

14/3,K/33 (Item 5 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01464502 SUPPLIER NUMBER: 11585918 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Mail-order nugget. (Curtis Manufacturing Company Inc.'s Keyboard Organizer add-on device) (Forum) (Brief Article)**  
Feldman, Saul D.  
PC Sources, v2, n12, p88(1)



Dec, 1991

DOCUMENT TYPE: Brief Article      ISSN: 1052-6579      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 168      LINE COUNT: 00012

TEXT:

...Co. (Jaffrey, NH, 800-548-4900, 603-532-4123) is the Swiss Army knife of **keyboard covers**. This **plastic** unit has a well to hold your **keyboard**, a heavy **protective plastic cover**, and enough slots and recesses to reduce the flotsam and jetsam you find on most...

**14/3,K/34      (Item 6 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01357630      SUPPLIER NUMBER: 08409624      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**More than mere frills: Computer accessories. (a little attention to office planning and ergonomics can significantly improve productivity)**

Steinhart, Jim

Canadian Datasystems, v22, n3, p16(2)

March, 1990

ISSN: 0008-3364      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1233      LINE COUNT: 00092

... of Toronto imports a spray that reduces reflections without the problems associated with meshes.

\* **Keyboard protection** : If you don't want to lay down the law about not drinking coffee near the computer, consider a **transparent keyboard glove** which allows typing through the **cover**. Anthes Universal Ltd. of Brampton, Ont. makes such skins.

\* Data storage: Encouraging organized data means...

**14/3,K/35      (Item 7 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

01304264      SUPPLIER NUMBER: 07377492      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Off-the-shelf ruggedised kit.**

Foster, Alan

Industrial Computing, p17(3)

May, 1989

ISSN: 0268-7860      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1958      LINE COUNT: 00152

...ABSTRACT: the-shelf components. Many vendors offer microcomputer equipment designed to operate in adverse conditions, including **protective plastic** -film **covers** for **keyboards**, LCD displays, sturdy system shells, and backplanes, which use a passive motherboard consisting of connectors...

**14/3,K/36      (Item 1 from file: 484)**

DIALOG(R)File 484:Periodical Abs Plustext  
(c) 2003 ProQuest. All rts. reserv.

03125056      (USE FORMAT 7 OR 9 FOR FULLTEXT)

**An experiment in 'virtual community' takes shape in Blacksburg, Va.**  
Blumenstyk, Goldie

Chronicle of Higher Education (GCHE), v43 n19, pA24-A26, p.2  
Jan 17, 1997  
ISSN: 0009-5982 JOURNAL CODE: GCHE  
DOCUMENT TYPE: Feature  
LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2054

TEXT:

... get updates on blacked-out sports events, and show each other "hot" Web sites. The **keyboard** ,has a **plastic cover** , **protecting** it from spilled drinks.

NOT A GIMMICK

Mr. Ellenbogen says the computer isn't a...

14/3,K/37 (Item 2 from file: 484)  
DIALOG(R)File 484:Periodical Abs Plustext  
(c) 2003 ProQuest. All rts. reserv.

02145773 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**How to make your child PC literate**

Losee, Stephanie

Fortune (FOR), v130 n10, p161-172, p.5

Nov 14, 1994

ISSN: 0015-8259 JOURNAL CODE: FOR

DOCUMENT TYPE: Feature

LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3096 LENGTH: Long (31+ col inches)

TEXT:

... shuts kids out of all but their own files. Back up your data frequently, and **cover** your **keyboard** with a **plastic** skin to **protect** it from apple juice and peanut butter. Says Allen Glenn, dean of the University of...

14/3,K/38 (Item 3 from file: 484)  
DIALOG(R)File 484:Periodical Abs Plustext  
(c) 2003 ProQuest. All rts. reserv.

01405889 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**What is your computer hiding?**

Meyer, Jim

ABA Journal (GABA), v79, p89, p.1

Feb 1993

ISSN: 0747-0088 JOURNAL CODE: GABA

DOCUMENT TYPE: Feature

LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 929 LENGTH: Medium (10-30 col inches)

TEXT:

... is inappropriate in certain situations--at depositions, in the courtroom, on an airplane. The rubberized **plastic covers** sold to **protect keyboards** from dust also provide a simple, inexpensive way of muffling computer clatter. These molded units...

14/3,K/39 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01019253      Supplier Number: 39674680 (USE FORMAT 7 FOR FULLTEXT)  
**TOUCH SCREENS GET IMPROVED SCRATCH PROTECTION FROM ELOGRAPHICS**  
PR Newswire, pN/A  
Jan 14, 1986  
Language: English      Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 283

...      The membrane cover sheets, themselves, provide important protective features, says Bill Gibson, Elographics' President. "The **plastic cover** sheet on our resistive membrane **touch screen** protects the thin-film coating on the glass from wear or abuse during customer use. Unprotected...

14/3,K/40      (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

0315884 92-63734  
**Hooleon Aims for Big Things in Little Towns**  
Scheider, Paul  
Arizona Business Gazette (Phoenix, AZ, US), V112 N32 s1 p3  
PUBL DATE: 920807  
WORD COUNT: 486  
DATELINE: Cornville, AZ, US

TEXT:

...makes keyboard-related products such as custom-imprinted keys, adhesive key-top labels, templates and **keyboard protectors** -flexible, **plastic** membranes that **cover keyboards**, thus **protecting** them from dust, coffee spills and the like.

The company also offers key "lockouts," devices...  
?

22/3,K/1 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

02034966 SUPPLIER NUMBER: 03293526 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Robot and solvent combine to improve productivity. (navigational gyro manufacturing industry)**  
Production Engineering, v31, p116(2)  
June, 1984  
ISSN: 0146-1737 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 4238 LINE COUNT: 00337

... relay control--16 timers, and 8 counters. System features a simplified programming language and logical **keyboard** design Motion control system System lets any computer control manufacturer's precision linear and rotary...

...Nylong drive rivet One-piece, molded nylon rivet can be used to fasten sheet metal, **printed circuit boards**, plastic sheets, and other materials. Each size adapts to fit a variety of panel thicknesses...

...thickness of 0.062 to 0.750 in. Quick jaw change chucks Series of wedge-**bar** power chucks have a top-jaw engagement system which increases versatility and reduces jaw change a single **printed circuit board** with the transformer mounted off the card. It offers 2 K or 4 K EPROM...  
...power to drive photoelectric or proximity sensors as AND, OR, and INVERTER, as well as **latching**, timing, and counting functions. It has a 2 ms response and a program capacity of...

...petrochemical, mining, and heavy construction applications, it includes a one-piece frame with dual tie-**bar** supports. The design gives rigid, lightweight drum support to reduce deflection under load and prevent...

...pot life. It will not bleed out of voids during polymerization, producing a nearly indestructible **seal**. The resin cures at 200 to 205 F, and parts are ready for testing or...

...glycols, solvent salts, mild acids, and freons. Ceramabond 569 is a single part alumina base **adhesive** for locking metal threads at temperatures above 500 F. It has an operating temperature range...

22/3,K/2 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

01650839  
**IEE INTRODUCES A HIGH PERFORMANCE, LOW PROFILE SEALED SWITCH (TM).**  
NEWS RELEASE April 15, 1987 p. 11

The Planar Products Division of IEE, a leading manufacturer of electronic displays and **keyboards**, is pleased to announce a new environmentally protected keypad line. The SEALED SWITCH (TM) is designed...

...current 3x4 and 4x4 models are available in both military and industrial versions. This new **keyboard** product features a one-piece silicone rubber boot which wraps around the **printed circuit board** to form a complete **seal** when mounted. The keys, using internal snap-dome construction, produce a crisp snap-action with...

... of solvents, oils, most chemicals, heat, ultraviolet radiation and scratching. The full flange design permits **sealed** mounting on the front or rear of the panel. Boots are available in either translucent...

... Maximum contact resistance is 1.0 volume, and minimum insulation resistance is 10(6) volume. **Mechanical** specifications include actuation of 400 grams (nominal), key travel at 0.02 inch minimum, and...

22/3,K/3 (Item 2 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

(c) 1999 The Gale Group. All rts. reserv.

01258679

**Product Focus:Relays, Switches & Keyboards.**

ELECTRONIC ENGINEERING August, 1985 p. 48-541

... to Frost and Sullivan (UK). The main growth areas are the electromechanical, membrane keyswitch and **keyboard** sectors, which will hold a 23 percent market share by 1990, compared with 15 percent...

... and keypads, the latest development is the 1 piece rubber keypad for electrical contacts and **mechanical** operation of the switch. The keypad lies directly on the **printed circuit board**, and is operated by pressing down a conducting rubber pill onto the circuit board, thereby...

... a 1 rubber keypad can replace a full range of electromechanical keyswitches, and can also **seal** against cost and dirt. A further advantage of the rubber keypad is that it provides...

?

File 348:EUROPEAN PATENTS 1978-2003/Nov W05

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20031203,UT=20031127

(c) 2003 WIPO/Univentio

? ds

Set	Items	Description
S1	61114	TOUCHPAD? OR TOUCH()PAD? OR KEYBOARD? OR KEY()BOARD? OR TOUCHSCREEN? OR TOUCH()SCREEN?
S2	245	(SECURITY OR ANTILOCK OR ANTITHEFT OR ANTI-LOCK? OR ANTI-THEFT) (3N)CABLE??
S3	31898	PCBA OR PRINT?()CIRCUIT?()BOARD?
S4	418657	PROTECT? OR WATERPROOF OR WATER-PROOF OR RAINPROOF OR RAIN-PROOF OR WATER() (RESISTAN? OR REPEL? OR PROTECT? OR PROOF)
S5	797676	LATCH? OR BAR OR MECHAN?
S6	22580	CASH()REGISTER? OR KIOSK? OR (VENDING OR DISPENSING OR DISPENSER) (3N) (MACHINE OR TERMINAL OR UNIT OR APPARATUS OR DEVICE? OR BOOTH? ?)
S7	381404	SEAL?? OR SEALING OR ADHESIVE OR GASKET?
S8	9332	IC=G09G?
S9	57	S1(5N) (PLASTIC OR SEETHROUGH OR SEE-THROUGH OR TRANSLUCENT? OR TRANSPARENT?) (3N) (COVER? OR SHIELD?)
S10	3	S9(S)S3
S11	0	S1(S)S2(S)S3
S12	1	S1(10N)S2
S13	14	S9(S)S4
S14	14	S13 NOT (S10 OR S12)
S15	2	S14 AND S8
S16	4	S2(S)S5(S)S1
S17	4	S16 NOT (S10 OR S12 OR S15)
S18	2666	(SECURITY OR ANTILOCK OR ANTITHEFT OR ANTI-LOCK? OR ANTI-THEFT) (3N)S5
S19	0	S1(S)S3(S)S18
S20	51	S1(S)S18
S21	7	S20(S)S6
S22	6	S21 NOT (S16 OR S10 OR S12 OR S15)
S23	32	S5(3N)S7(S)S1
S24	0	S23(10N)S2
S25	1	S23(10N)S3
S26	1	S25 NOT (S21 OR S16 OR S10 OR S12 OR S15)

10/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

01391154

**A method of treating rubber surface**  
**Verfahren zur Behandlung von Gummioberflächen**  
**Methode de traitement de surface du caoutchouc**

**PATENT ASSIGNEE:**

Wang, Hsiang-Hua, (3092150), Parkers House, Suite 152, 48 Regent Street,  
Cambridge CB2 1FD, (GB), (Applicant designated States: all)

**INVENTOR:**

Wang, Hsiang-Hua, Parkers House, Suite 152, 48 Regent Street, Cambridge  
CB2 1FD, (GB)

PATENT (CC, No, Kind, Date): EP 1179559 A1 020213 (Basic)

APPLICATION (CC, No, Date): EP 2000117430 000811;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C08J-007/12; C08J-003/18; G02F-003/02;  
C08L-21:00

ABSTRACT WORD COUNT: 116

**NOTE:**

Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200207	574
SPEC A	(English)	200207	1347
Total word count - document A			1921
Total word count - document B			0
Total word count - documents A + B			1921

**...SPECIFICATION of the Prior Art**

It has been found that the keybuttons of mobile telephones, computer  
**keyboards** and calculators utilize a **plastic cover** to enclose the  
conductive rubber on the bottom. The reason why rubber is used at...

...bottom is that rubber is pliant in property and will not cause damage to  
the **printed circuit board**. The reason why the plastic is chosen to  
make the cover is that plastic is...

10/3,K/2 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

01016959 \*\*Image available\*\*

**PIEZOELECTRIC USER INTERFACE**  
**INTERFACE UTILISATEUR PIEZOELECTRIQUE**

**Patent Applicant/Assignee:**

NOKIA CORPORATION, Keilalahdentie 4, FIN-02150 Espoo, FI, FI (Residence),  
FI (Nationality), (For all designated states except: US)

**Patent Applicant/Inventor:**

TUOVINEN Juhani, Noykkionlaaksontie 40, FIN-02340 Espoo, FI, FI  
(Residence), FI (Nationality), (Designated only for: US)

**Legal Representative:**

KOLSTER OY AB (agent), Iso Roobertinkatu 23, P.O. Box 148, FIN-00121  
Helsinki, FI,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200347007 A1 20030605 (WO 0347007)  
Application: WO 2002FI956 20021127 (PCT/WO FI0200956)  
Priority Application: FI 20012330 20011128  
Designated States: AE AG AL AM AT (utility model) AT AU AZ BA BB BG BR BY  
BZ CA CH CN CO CR CU CZ (utility model) CZ DE (utility model) DE DK  
(utility model) DK DM DZ EC EE (utility model) EE ES FI (utility model)  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SI SK  
(utility model) SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 4769

Fulltext Availability:  
Detailed Description

Detailed Description

... and a keypad, where the user presses keys shown on the screen.

A touch-sensitive **transparent cover** 2' forms an upper surface of the  
35 **touch screen** keypad. Each corner of the rectangular cover 2' is  
supported by a piezoelectric element 3...

...those shown in Figures 1a to 1c and they are supported, for instance, by  
a **Printed**

**Circuit Board** (PCB) 10 of the apparatus. A soft foam frame has,  
however,  
been arranged between the...

10/3,K/3 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00435974 \*\*Image available\*\*

**METHOD AND APPARATUS FOR PROVIDING BACKLIGHTING FOR KEYPADS AND LCD PANELS  
PROCEDE ET APPAREIL PERMETTANT UN ECLAIRAGE PAR L'ARRIERE DE CLAVIERS ET DE  
PANNEAUX A CRISTAUX LIQUIDES**

Patent Applicant/Assignee:

ERICSSON INC,

Inventor(s):

PHILLIPS John C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9826438 A1 19980618

Application: WO 97US22328 19971209 (PCT/WO US9722328)

Priority Application: US 96761327 19961210

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG  
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN  
YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE  
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE  
SN TD TG

Publication Language: English

Fulltext Word Count: 5128

Fulltext Availability:

Detailed Description



#### Detailed Description

... translucent

elastomeric material of the keypad with a pair of electrical contacts that are not **covered** by the **translucent** elastomeric material. The **keyboard** assembly also includes a **printed circuit board** having a pair of electrical contacts disposed on a secondary surface of the board in...

...of electrical contacts

of the light-emitting diode when the keypad is assembled with the **printed circuit board**. The keyboard further includes a cover that is assembleable with the keypad and the **printed circuit board**, and adapted to provide a bias force urging the light-emitting diode embedded in the elastomeric material in a direction toward the secondary surface of the **printed circuit board** when the keypad, **printed circuit board** and cover area assembled together. Other features of the keyboard assembly embodying the present invention...

?

12/3,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00600729

**Security unit for data processor systems**

**Sicherheitseinheit für Datenverarbeitungssysteme**

**Unité de sécurité pour systèmes de traitement de données**

PATENT ASSIGNEE:

ALGORITHMIC RESEARCH Ltd., (1136611), 15 Gush Etzion, Givat Shmuel 51 905  
, (IL), (Proprietor designated states: all)

INVENTOR:

Tulpan, Yossi, 21 Bilu Street, 70 400 Nes Ziona, (IL)

LEGAL REPRESENTATIVE:

Wray, Antony John (93781), Optimus, Grove House, Lutyens Close, Chineham  
Court, Basingstoke, Hants RG24 8AG, (GB)

PATENT (CC, No, Kind, Date): EP 587375 A2 940316 (Basic)

EP 587375 A3 941117

EP 587375 B1 030730

APPLICATION (CC, No, Date): EP 93306937 930902;

PRIORITY (CC, No, Date): IL 103062 920904

DESIGNATED STATES: BE; CH; DE; DK; ES; FR; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: G06F-001/00

ABSTRACT WORD COUNT: 83

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	740
CLAIMS B	(English)	200331	846
CLAIMS B	(German)	200331	754
CLAIMS B	(French)	200331	923
SPEC A	(English)	EPABF2	3430
SPEC B	(English)	200331	3373
Total word count - document A			4171
Total word count - document B			5896
Total word count - documents A + B			10067

...SPECIFICATION addresses the above-described security problems by having the peripheral I/O devices (e.g., **keyboard**, display, printer, etc.) of the data processor system connected via **cables** to the **security** unit, and not to the computer unit. The security unit has another set of I...

...SPECIFICATION addresses the above-described security problems by having the peripheral I/O devices (e.g., **keyboard**, display, printer, etc.) of the data processor system connected via **cables** to the **security** unit, and not to the computer unit. The security unit has another set of I...

?

15/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00796302 \*\*Image available\*\*

**IMPROVED KIOSK TOUCHPAD**

**PAVE TACTILE PERFECTIONNE POUR KIOSQUE**

Patent Applicant/Assignee:

CIRQUE CORPORATION, 2463 South 3850 West, Suite A, Salt Lake City, UT  
84120, US, US (Residence), US (Nationality)

Inventor(s):

WOOLLEY Richard D, 550 East Heather Road, Orem, UT 84097, US,

Legal Representative:

O'BRYANT David W (et al) (agent), Morriss, Bateman, O'Bryant & Compagni,  
P.C., Suite 300, 5882 South 900 East, Salt Lake City, UT 84121, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200129815 A1 20010426 (WO 0129815)

Application: WO 2000US28988 20001020 (PCT/WO US0028988)

Priority Application: US 99422321 19991021

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 7854

Main International Patent Class: G09G-005/00

Fulltext Availability:

Detailed Description

Detailed Description

... rather than "tap".

nature of the invention simulating mechanical buttons,  
for durability and applicability, the touch pad 21 is  
preferably protected by a transparent cover plate 31  
which overlays and preferably extends beyond the  
boundary 33 of the touch pad...

15/3,K/2 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00538815 \*\*Image available\*\*

**KIOSK TOUCH PAD**

**BLOC A EFFLEUREMENT POUR KIOSQUE**

Patent Applicant/Assignee:

CIRQUE CORPORATION,

Inventor(s):

DONOHUE Thomas E,

GLAD Paul H,

O'CALLAGHAN James L,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200002188 A1 20000113 (WO 0002188)

Application: WO 99US15161 19990702 (PCT/WO US9915161)

Priority Application: US 98110098 19980702  
Designated States: CA CN JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL  
PT SE  
Publication Language: English  
Fulltext Word Count: 7931

Main International Patent Class: G09G-005/00

Fulltext Availability:

Detailed Description

Detailed Description

... rather than "tap" nature of the invention simulating mechanical buttons, for durability and applicability, the touch pad 21 is preferably **protected** by a **transparent cover** plate 31 which overlays and preferably extends beyond the boundary 33 of the touch pad...

?

17/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00797807

**Security latch**

**Sicherheitsschloss**

**Serrure de securite**

PATENT ASSIGNEE:

RESEARCH MACHINES PLC, (493970), New Mill House, 183 Milton Park, Milton,  
Abingdon, Oxon OX14 4SE, (GB), (applicant designated states:  
DE;FR;GB;IT)

INVENTOR:

Arbuthnott, Peter Gordan, 32 Mill Street Wantage, Oxfordshire OX129AQ,  
(GB)

LEGAL REPRESENTATIVE:

Unwin, Stephen Geoffrey (52792), S.G. Unwin & Co. Brookfurlong Farmhouse,  
Islip, Oxford OX5 2TJ, (GB)

PATENT (CC, No, Kind, Date): EP 742331 A1 961113 (Basic)

APPLICATION (CC, No, Date): EP 96303305 960513;

PRIORITY (CC, No, Date): GB 9509643 950512

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: E05B-073/00; E05B-067/38;

ABSTRACT WORD COUNT: 87

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	656
SPEC A	(English)	EPAB96	1972
Total word count - document A			2628
Total word count - document B			0
Total word count - documents A + B			2628

...SPECIFICATION be used to surround one or more cables and thereby secure them to the security **latch** and hence to the computer case 30. The cables particularly relevant are those for electrically...

...loop can still receive the finger 23 when the abutment member is engaged in the **latching** position. Engagement of the abutment member with the bracket may also be arranged to close...bracket to the computer case. For example, finger 23 may close the loop, giving more **security** for the **cables**.

In modifications of the preferred example of the invention, the security latch described above is...

17/3,K/2 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00909145 \*\*Image available\*\*

**PLANAR LASER ILLUMINATION AND IMAGING (PLIIM) SYSTEMS WITH INTEGRATED DESPECKLING MECHANISMS PROVIDED THEREIN**  
**SYSTEMES PLIIM D'ILLUMINATION ET D'IMAGERIE AU LASER PLANAIRE A MECANISME DE DECHATOIEMENT INTEGRE**

Patent Applicant/Assignee:

METROLOGIC INSTRUMENTS INC, 90 Coles Road, Blackwood, NJ 08012, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

TSIKOS Constantine J, 65 Woodstone Drive, Voorhees, NJ 08043-4749, US, US

(Residence), US (Nationality), (Designated only for: US)  
 KNOWLES Carl Harry, 425 East Linden Street, Morrestown, NJ 08057, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 ZHU Xiaoxun, 669 Barton Run Boulevard, Marlton, NJ 08053, US, US  
 (Residence), CN (Nationality), (Designated only for: US)  
 SCHNEE Michael D, 41 Penns Court, Aston, PA 191014, US, US (Residence),  
 US (Nationality), (Designated only for: US)  
 AU Ka Man, 1224 Devereaux Avenue, Philadelphia, PA 19111, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 WIRTH Allan, 358 Concord Road, Bedford, MA 01730, US, US (Residence), US  
 (Nationality), (Designated only for: US)  
 GOOD Timothy A, 2041 Broad Acres Drive, Clementon, NJ 08021, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 JANKEVICS Andrew J, 80R Carlisle Road, Westford, MA 01886, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 GHOSH Sankar, Apartment #B27, 100 W. Oadk Lane, Glenolden, PA 19036, US,  
 US (Residence), US (Nationality), (Designated only for: US)  
 NAYLOR Charles A, 486 Center Street, Sewell, NJ 08080, US, US (Residence)  
 , US (Nationality), (Designated only for: US)  
 AMUNDSEN Thomas, 620 Glen Court, Turnersville, NJ 08012, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 BLAKE Robert, 762 Fairview Avenue, Woodbury Heights, NJ 08097, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 SVEDAS William, 515 Longwood Avenue, Deptford, NJ 08096, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 DEFONEY Shawn, 331 Fay Ann Court, Runnemede, NJ 08078, US, US (Residence)  
 , US (Nationality), (Designated only for: US)  
 SKYPALA Edward, 1501 Old Blackhorse Pike, Suite 0-2, Blackwood, NJ 08012,  
 US, US (Residence), US (Nationality), (Designated only for: US)  
 VATAN Pirooz, 5122 Lexington Ridge Drive, Lexington, MA 02421, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 DOBBS Russell Joseph, 4 Grass Road, Cherry Hill, NJ 08034, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 KOLIS George, 5037 Jackson Avenue, Pennsauken, NJ 08110, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 SCHMIDT Mark C, 1659 Woodland Drive, Williamstown, NJ 08094, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 YORSZ Jeffrey, 24 Fells Road, Winchester, MA 01890, US, US (Residence),  
 US (Nationality), (Designated only for: US)  
 GIORDANO Patrick A, 1501 Little Gloucester Road, Apartment #U-40,  
 Blackwood, NJ 08012, US, US (Residence), US (Nationality), (Designated  
 only for: US)  
 COLAVITO Stephen J, 3520 Edgewater Lane, Brookhaven, PA 19015-2607, US,  
 US (Residence), US (Nationality), (Designated only for: US)  
 WILZ David W Sr, 10 Orion Way, Sewell, NJ 08080, US, US (Residence), US  
 (Nationality), (Designated only for: US)  
 SCHWARTZ Barry E, 407 Farwood Road, Haddonfield, NJ 08033, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 KIM Steve Y, 129 Franklin Street, #113, Cambridge, MA 02139, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 FISCHER Dale, 204 Sunshire Lakes Drive, Voorhees, NJ 08043, US, US  
 (Residence), US (Nationality), (Designated only for: US)  
 VAN Tassel John E Jr, 8 Arbor Lane, Winchester, MA 01890, US, US  
 (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

PERKOWSKI Thomas J (et al) (agent), Thomas J. Perkowski, Esq., P.C.,  
 Soundview Plaza, 1266 East Main Street, Stamford, CT 06902, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200243195 A2-A3 20020530 (WO 0243195)

Application: WO 2001US44011 20011121 (PCT/WO US0144011)

Priority Application: US 2000721885 20001124; US 2001780027 20010209; US

2001781665 20010212; US 2001883130 20010615; US 2001954477 20010917; US  
2001999687 20011031

Parent Application/Grant:

Related by Continuation to: US 2001954477 20010917 (CIP)

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 298301

17/3,K/3 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00820481 \*\*Image available\*\*

**PROTECTED ACCOUNTABLE PRIMARY FOCAL NODE INTERFACE**

**INTERFACE PROTEGEE RESPONSABILISEE SOUS FORME DE NOEUD FOCAL PRIMAIRE**

Patent Applicant/Assignee:

KLINE & WALKER LLC, 11201 Spur Wheel Lane, Potomac, MD 20854, US, US

(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

WALKER Richard C, 15000 Hunters Harbor Lane, Waldorf, MD 20601, US, US

(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

DONNER Irah H (et al) (agent), Hale and Dorr LLP, 1455 Pennsylvania

Avenue, N.W., Washington, DC 20004, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200154044 A1 20010726 (WO 0154044)

Application: WO 2001US1645 20010119 (PCT/WO US0101645)

Priority Application: US 2000176818 20000119; US 2000200872 20000501

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CZ DE DK

DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 69601

Fulltext Availability:

Detailed Description

Detailed Description

... devices and systems by the proper authorized government agencies  
charged with Public Safety and National **Security** in a cost effective  
manner.

The Primary Focal Node (PFN) is a Protected electrical interface...from  
start to finish. This is accomplished through feedback sensors. Feedback  
Sensors may be electrical, **mechanical**, fiber optic, infra red or other  
technologies. Since the function being performed requires a high...e.g.,

welded. This last side or plate will contain the access panel with locking **mechanism** and hardware (physically and/or electrically controlled in most cases with special seals). And special consideration is given to any antenna and locking **mechanism** that is part of this protected containment with hard wiring routed with in the structure...the proper interfaces and software and/or firm ware. Part 2B04 is a multi-bus **bar** connector universal with 29 contacts so that it can support any system/device entered into...respectfully as possible and needed.

Another uni-bus system described earlier is the segmented infrared **bar** that can be aligned to any device's infrared window to communicate with the invention...that go out past the inner plate 2C002 where they pass through a solenoid catch **mechanism** that when it is de-energized will not allow the bars to pass out of...as described in figure 2C with the throw bars out to the electric solenoid catch **mechanisms** and there by finally opened by electric solenoid release triggered from the inside program software...if this type of lock system is employed. And 2D I I depicts the electric **latch** plate and solenoid assembly that receives the lock bolts from the keyed cylinders. 2D05 is...

17/3,K/4 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00541148 \*\*Image available\*\*

**INTERACTIVE PRESCRIPTION COMPLIANCE AND LIFE SAFETY SYSTEM**  
**SYSTEME INTERACTIF DE SUIVI DE LA CONFORMITE DE PRESCRIPTIONS, ET DE**  
**SECURITE DES PERSONNES**

Patent Applicant/Assignee:

O'BRIEN Charles T,

Inventor(s):

O'BRIEN Charles T,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200004521 A1 20000127 (WO 0004521)

Application: WO 99US15612 19990709 (PCT/WO US9915612)

Priority Application: US 98115650 19980715

Designated States: AU BR CA CN IL IN JP KP KR MX NO NZ SG VN AT BE CH CY DE  
DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 7832

Fulltext Availability:

Detailed Description

Detailed Description

... Patent 5,564,803 to McDonald October 10, 1996, is a portable nursing center utilizing **bar** codes and a **keyboard** data entry system to open specific drawers containing medications. While these systems seem to ensure some form of compliance, none provide for personal safety and **security** .

**Cable** Set Top Boxes are becoming commonplace in homes, assisted living centers, retirement centers, nursing homes...

?



22/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00677430

Digital information accessing, delivery, and reproduction

Zugriff, Übertragung und Wiedergabe von digitaler Information

Acces, livraison et reproduction d'informations digitales

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

INVENTOR:

Tsevdos, James T., 2711 NE 57th Street, Fort Lauderdale, Florida 33308,  
(US)

Cook, Ross L., 901 SW 36th Avenue, Boynton Beach, Florida 33435, (US)

Ring, Nancy Lee, 6129 Town Colony Drive, Boca Raton, Florida 33433, (US)

Barnhill, Robert S., 21218 St. Andrews Blvd., No. 10-405, Boca Raton,  
Florida 33433, (US)

Hamblin, Glen E., 9384 Gettysburg Road, Boca Raton, Florida 33434, (US)

Milstead, Kenneth L., 9927 Majestic Way, Boynton Beach, Florida 33437,  
(US)

Kindell, Craig N., 2014 SW 29th Court No. 2A, Delray Beach, Florida 33445  
, (US)

Waefler, Susan Elizabeth, 5086 Madison Road, Delray Beach, Florida, 33484  
, (US)

Portela, Carlos, 2659 SE 14th Street, Pompano Beach, Florida 33062, (US)

Anderson, Brent C., 14232 Marsh Lane, Dallas, Texas 75244, (US)

LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual  
Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 649121 A2 950419 (Basic)

EP 649121 A3 950809

EP 649121 B1 000119

APPLICATION (CC, No, Date): EP 94307596 941017;

PRIORITY (CC, No, Date): US 137880 931015

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: G07F-017/16; G06F-017/60; G06F-017/30

ABSTRACT WORD COUNT: 392

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200003	2032
CLAIMS B	(German)	200003	2001
CLAIMS B	(French)	200003	2379
SPEC B	(English)	200003	16248
Total word count - document A			0
Total word count - document B			22660
Total word count - documents A + B			22660

...ABSTRACT sale location are able to exhaustively search and preview the  
content database using graphics-based **touch screens** at consumer  
**kiosks** . Previews including audio and video segments are made available.  
Prompting screens allow customers to make...

...for any in-store inventory of, for example, an artist's composition  
regardless of format. **Security mechanisms** that require centralized  
database authorizations prior to the transmission of content and/or the  
manufacture...

22/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00269714

Document dispenser.

Dokumentenspender.

Distributeur de documents.

PATENT ASSIGNEE:

TECHNITROL, INC., (452960), 1952 East Allegheny Avenue, Philadelphia  
Pennsylvania 19134, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Cargill, N. Allen, 1131 Tollhouse Road, Warminster Pennsylvania 18974,  
(US)

Malashkin, Michail, 160 Pennsylvania Avenue, Chalfont Pennsylvania 18914,  
(US)

LEGAL REPRESENTATIVE:

Valentine, Francis Anthony Brinsley et al (37002), REDDIE & GROSE 16  
Theobalds Road, London WC1X 8PL, (GB)

PATENT (CC, No, Kind, Date): EP 256859 A2 880224 (Basic)  
EP 256859 A3 890118  
EP 256859 B1 930310

APPLICATION (CC, No, Date): EP 87307170 870813;

PRIORITY (CC, No, Date): US 896071 860813

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: B65H-003/44; B65H-039/043; G07D-001/00;

ABSTRACT WORD COUNT: 85

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	382
CLAIMS B	(German)	EPBBF1	357
CLAIMS B	(French)	EPBBF1	453
SPEC B	(English)	EPBBF1	7055
Total word count - document A			0
Total word count - document B			8247
Total word count - documents A + B			8247

...SPECIFICATION circuitry, is contained within a cabinet 3 provided with a door that can be locked with the same security as a typical cash drawer. The control devices 1 and 2 are provided with keyboards for use by the tellers for controlling the dispensing of paper currency.  
In Figures 2...

22/3,K/3 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

01000979

THE PFN/TRAC SYSTEM<sup>sup</sup>TM FAA UPGRADES FOR ACCOUNTABLE REMOTE AND ROBOTICS CONTROL TO STOP THE UNAUTHORIZED USE OF AIRCRAFT AND TO IMPROVE EQUIPMENT MANAGEMENT AND PUBLIC SAFETY IN TRANSPORTATION  
PERFECTIONNEMENTS FAA AU SYSTEME PFN/TRAC<SP>MD</SP> POUR LE CONTROLE RESPONSABLE A DISTANCE ET ROBOTIQUE POUR L'ELIMINATION DE L'UTILISATION NON AUTORISEE D'AERONEFS ET POUR L'AMELIORATION DE LA GESTION D'EQUIPEMENT ET DE LA SECURITE PUBLIQUE DANS LE DOMAINE DU TRANSPORT

Patent Applicant/Assignee:

KLINE & WALKER LLC, 11201 Spur Wheel Lane, Potomac, MD 20854, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

WALKER Richard C, 11201 Spur Wheel Lane, Potomac, MD 20854, US, US  
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

DONNER Irah H (et al) (agent), Hale and Dorr LLP, 1455 Pennsylvania  
Avenue, N.W., Washington, DC 20004, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200329922 A2 20030410 (WO 0329922)

Application: WO 2002US30857 20021001 (PCT/WO US0230857)

Priority Application: US 2001325538 20011001; US 2001330085 20011019

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CZ

DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD

SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 133713

Fulltext Availability:

Detailed Description

Detailed Description

... that use. This is the nature, scope and purpose of the PFN/TRAC  
System. FACT **security** is only to be the enforcement arm of the people.  
To protect and serve the...technology to relay critical flight data to  
the Transportation Security Agency (TSA) along with additional **security**  
telemetry such as EDS Explosion Detection sensors and cabin video and  
audio data that is...

22/3,K/4 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00929543 \*\*Image available\*\*

**SMART ELECTRONIC LABEL EMPLOYING ELECTRONIC INK**

**ETIQUETTE ELECTRONIQUE INTELLIGENTE METTANT EN APPLICATION DE L'ENCRE  
ELECTRONIQUE**

Patent Applicant/Assignee:

VISIBLE TECH-KNOWLEDGY LLC, 18 Robinhood Drive, Mountain Lakes, NJ 07046,  
US, US (Residence), US (Nationality)

Inventor(s):

GELBMAN Alexander, 18 Robinhood Drive, Mountain Lakes, NJ 07046, US,

Legal Representative:

LAURENTANO Anthony A (et al) (agent), Lahive & Cockfield, LLP, 28 State  
Street, Boston, MA 02109, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200263602 A1 20020815 (WO 0263602)

Application: WO 2002US3568 20020207 (PCT/WO US0203568)

Priority Application: US 2001267048 20010207; US 2001268752 20010214

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 21456

Fulltext Availability:

Claims

#### Claim

... DVD player, home entertainment system, cable television, satellite television, centralized systems and/or data bases, **keyboard**, mouse pad, computer peripheral, personal data assistant, voice activated device, computer, microprocessor, Java box, common...by the waiter or other employee. For example, if the activator is mounted by a **cash register** or hostess table, several menus 94 can be updated at one time by the activator...

...application of the label system 1 0 of the present invention. Figure 14 illustrates a **keyboard** 98 having a plurality of keys 1 00. One or 5 more of the keys...

...can have mounted thereon a label 16. The activator module employed in connection with the **keyboard** can be mounted in the **keyboard**, or nearby in the computer or monitor. The label 16 can be activated to change...

...applications where prolonged or repeated mechanical uses would wear out any direct electrical connection. The **keyboard** containing the labels can be updated or changed as the application or situation dictates. The ...debit cards, telephone cards; temporary account items, such as mass transit fare cards, telephone cards, **vending machine** cash cards; memberships; such as memberships in commercial establishments; and identification items, such as ID...part of or comprise an airline check in counter, airline ticket issuing printer, e-ticket **kiosk**, baggage check in **kiosk**, skycap check in station, boarding gate, departure door, airplane boarding ramp, automated baggage handling system...

...mailing window/drop off boxes, drive up mailing window/drop off, self standing overnight mailing **kiosks**, mail boxes, drop boxes, 1 5 automated parcel moving system, automated mail sorting systems, automated...

...travel ticketing system, boarding monitoring system, luggage tracking systems, centralized systems and/or data bases, **keyboard**, keypad, Personal Data Assistant( Palm Pilot), voice activated device, stand alone computer, stand alone PC...

...passage way, swinging ann/gate, elevator, escalator, moving sidewalks, airline check in counter, ticketing

39

**kiosks**, check in **kiosks**, travel related **kiosks**, skycap check in counter, boarding gate counter, departure gate doorway, departure gate doorway, boarding pas...

...by delivery/pick up person, deliver truck doorways, delivery trucks, pickup trucks, customer servicing counters, **cash registers**, weighing stations, scales, and local postal issuing stations/offices, 1 5 windows, passage ways for packages, mailing **kiosks**, mail boxes, drop boxes,

automated parcel moving system, automated mail sorting systems, cars trucks, mail...

...personnel, equipment used by pick up and delivery personnel, doorways, door, gates, turnstiles, elevator, escalator, **keyboard**, keypad, personal data assistant, voice activated device, computer network, a stand alone computer, mouse pad...radiation absorbing material. A variety of these optical characteristics can be combined to provide additional **mechanisms** for authentication and **security** of monetary instruments. Other applications related to monetary instruments can include employing a label (such...the monetary instrument. The receiving device can include a money counting machine, counterfeit inspection station, **cash register** or draw, securities validation machine, bond validation machine, and an ATM machine. The activator module...

22/3,K/5 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00777015 \*\*Image available\*\*

**DISTRIBUTED CONTENT ARCHITECTURE**

**ARCHITECTURE DE DISTRIBUTION DE CONTENU**

Patent Applicant/Assignee:

DIGITAL MERCHANT INC, 2303 Loma Prieta Lane, Menlo Park, CA 94025, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

SEQUEIRA William J, 117 Galleon Street, Unit B, Marina Del Rey, CA 90292,  
US, US (Residence), CR (Nationality), (Designated only for: US)

Legal Representative:

GLENN Michael A (et al) (agent), Glenn Patent Group, 3475 Edison Way,  
Ste. L, Menlo Park, CA 94025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200109749 A2-A3 20010208 (WO 0109749)

Application: WO 2000US20327 20000726 (PCT/WO US0020327)

Priority Application: US 99146230 19990728

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU

LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA

UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4359

Fulltext Availability:

Detailed Description

Detailed Description

... sale location are able to exhaustively search and preview the content database using graphics-based **touch screens** at consumer **kiosks**. Previews including audio and video segments are made available. Prompting screens allow customers to make...it be a retail store or similar point-of-sale or other end-user location. **Security mechanisms** that require centralized database authorizations prior to the transmission of content and/or the manufacture...

22/3,K/6 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00761430 \*\*Image available\*\*

SYSTEM, METHOD AND COMPUTER PROGRAM FOR REPRESENTING PRIORITY INFORMATION  
CONCERNING COMPONENTS OF A SYSTEM

SYSTEME, METHODE ET ARTICLE FABRIQUE PERMETTANT DE CLASSER PAR ORDRE DE  
PRIORITE DES COMPOSANTS D'UNE STRUCTURE DE RESEAU NECESSAIRES A LA MISE  
EN OEUVRE D'UNE TECHNIQUE

Patent Applicant/Assignee:

ANDERSEN CONSULTING LLP, 100 South Wacker Drive, Chicago, IL 60606, US,  
US (Residence), US (Nationality)

Inventor(s):

GUHEEN Michael F, 2218 Mar East Street, Tiburon, CA 94920, US,  
MITCHELL James D, 3004 Alma, Manhattan Beach, CA 90266, US,  
BARRESE James J, 757 Pine Avenue, San Jose, CA 95125, US,

Legal Representative:

BRUESS Steven C (agent), Merchant & Gould P.C., P.O. Box 2903,  
Minneapolis, MN 55402-0903, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200073956 A2-A3 20001207 (WO 0073956)

Application: WO 2000US14406 20000524 (PCT/WO US0014406)

Priority Application: US 99321274 19990527

Designated States: AE AG AL AM AT (utility model) AT AU AZ BA BB BG BR BY

CA CH CN CR CU CZ (utility model) CZ DE (utility model) DE DK (utility

model) DK DM DZ EE (utility model) EE ES FI (utility model) FI GB GD GE

GH GM HR HU ID IL IN IS JP KE KG KP KR (utility model) KR KZ LC LK LR LS

LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK

(utility model) SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 149024

Fulltext Availability:

Detailed Description

Detailed Description

... of information are being grouped together as a divisible unit, such as  
in the same **bar** or wedge of chart, the confusion is compounded. Still  
further adding to the confusion would...accordance with one embodiment of  
the present invention; Figure 27 is a flowchart illustrating the  
**security** services in accordance with one  
embodiment of the present invention;  
Figure 28 is a flowchart...nt JavaPC is targeted at OEMs designing  
thin-client devices such as  
Tools transaction terminals, **cash registers**, **kiosks** and ATMs.

Product2 Management Console - Java-based utility  
that provides views of servers on the...not only functional, but also  
engaging and informative. This is especially true of Internet and **kiosk**  
-based systems, where users have a notoriously short concentration span.

This requirement for more attractive...where the media content is local  
to the client application,

157

such as in a **kiosk** ).

Vector-based tools (where the image is defined by formulae rather than pixel position...

?

26/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

01030644 \*\*Image available\*\*

RUGGEDIZED, WATER SEALED, SECURITY-ENHANCED TOUCHPAD ASSEMBLY  
ENSEMBLE BLOC A EFFLEUREMENT ROBUSTE, ETANCHE A L'EAU ET A SECURITE  
AMELIOREE

Patent Applicant/Assignee:

@POS COM INC, 3051 North First Street, San Jose, CA 95134, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

YUEN Siltex Peter, 2765 Hennessy Drive, San Jose, CA 95148, US, US  
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

KAUFMAN Michael A (et al) (agent), Dorsey & Whitney LLP, 4 Embarcadero  
Center, Suite 3400, San Francisco, CA 94111, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200360680 A2 20030724 (WO 0360680)

Application: WO 2003US698 20030110 (PCT/WO US0300698)

Priority Application: US 200244095 20020111

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI.  
SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4025

Fulltext Availability:

Detailed Description

Detailed Description

... 62 form a security chamber space 63 that is defined between portions  
of shield 28, PCBA 26, and support lens 23.

As shown in Fig. 3, touchpad assembly 21 preferably includes

?





## QCOLVC009-SV Interface Cable Kit for Zebra Z105S / Z160S / Z105Se Printers

### Description and Installation Instructions

Enclosed parts are necessary to connect a printer to an external HHP SV type verifier. A mounting stand is also required for the SV unit. HHP offers two types of mounting stands or the application may require a custom stand. A mounting stand is supplied separately.

Some knowledge of HHP ScanView software for SV series setup is highly recommended for installing the verifier.

#### System Operation Overview:

This interface is designed so if the verifier senses a bar code problem, the printer will pause. In the pause condition, verifier LEDs 1 and/or 2 will be ON and the printer PAUSE LED will be ON. To continue printing, press and release the verifier RESET button then press and release the printer PAUSE button.

#### Notes:

1. A 105SE or 160S printer must use the transmissive sensor with this kit.
2. There are some minor differences in the printer models. They are noted in the instructions or figures.

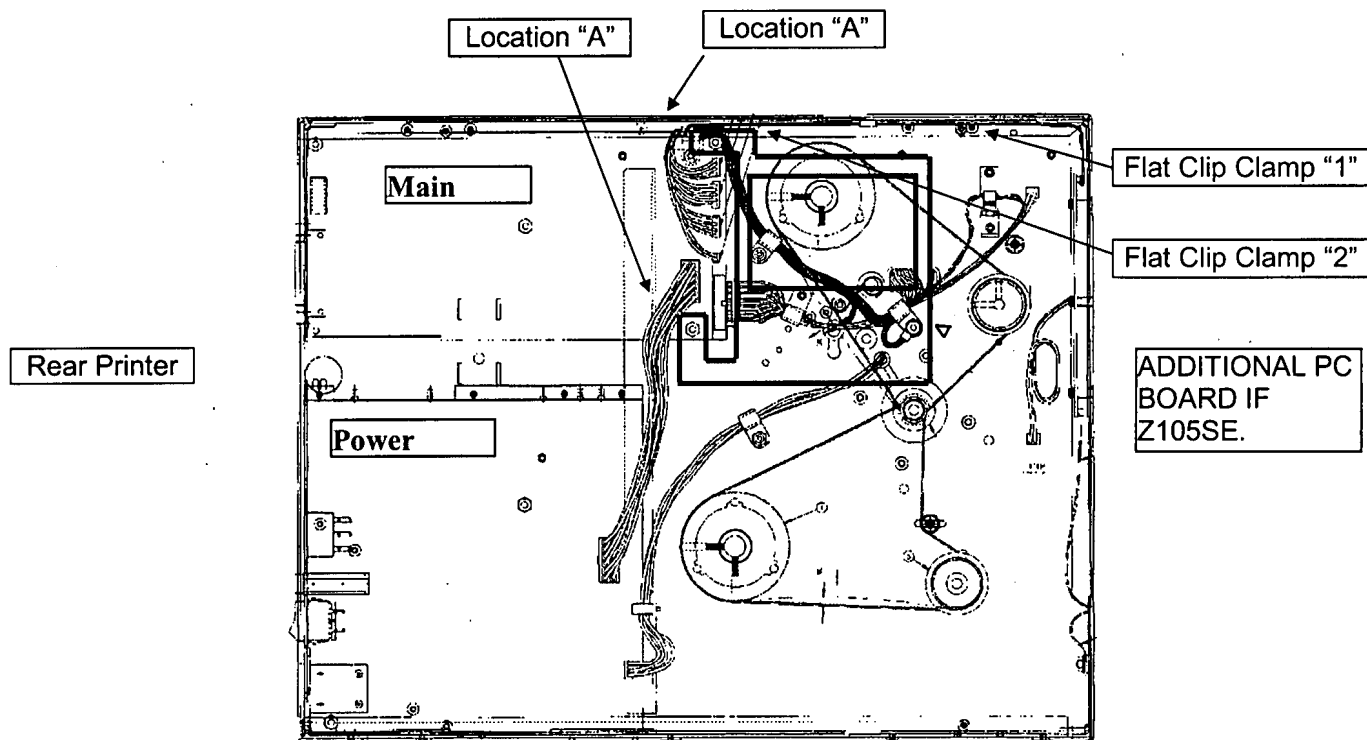
#### Kit List

Qty	Description
1	36 inch long communications cable with 15 pin connector on one end and 5 pin connector on the other. Cable includes a verifier power supply.
1	13 inch long ribbon cable with 14 pin connector on each end.
1	6 inch long stranded cable with 4 pin connector on each end.
1	Sheet metal bracket with attached PCBA assembly.
2	Brass mounting standoffs.
1	Light shield
1	C-type flat cable clamp.
2	Flat clip clamps.
1	Velcro cable bundle clamp.
1	Installation instructions.

**Caution:** Before beginning installation procedure, AC power to the printer must be turned off. It is recommended the power cable be disconnected from the printer.

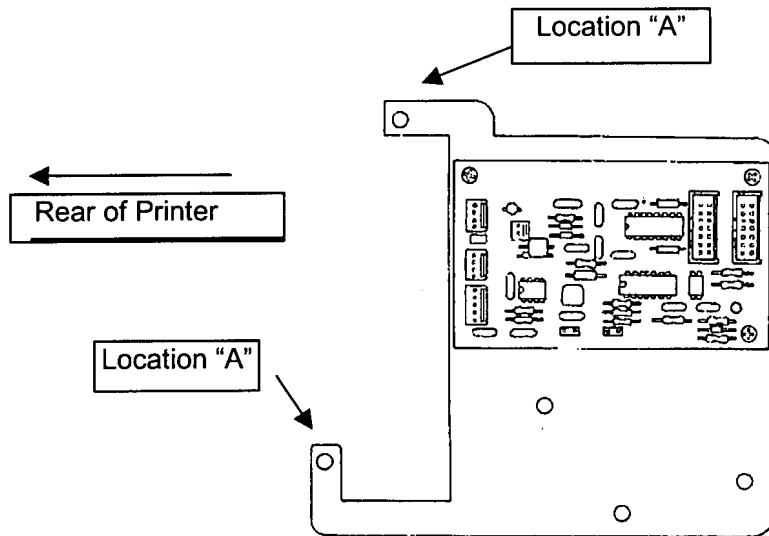
### Kit Installation Procedure:

1. Turn off the power to the printer.
2. Remove the printer left side cover to expose the kit mounting area (Remove four (4) screws).
3. Remove the two existing screws from the Zebra control PCBA locations "A" figure 1 on next page. *Save the screws for installation of the kit bracket assembly.*



**Fig. 1**

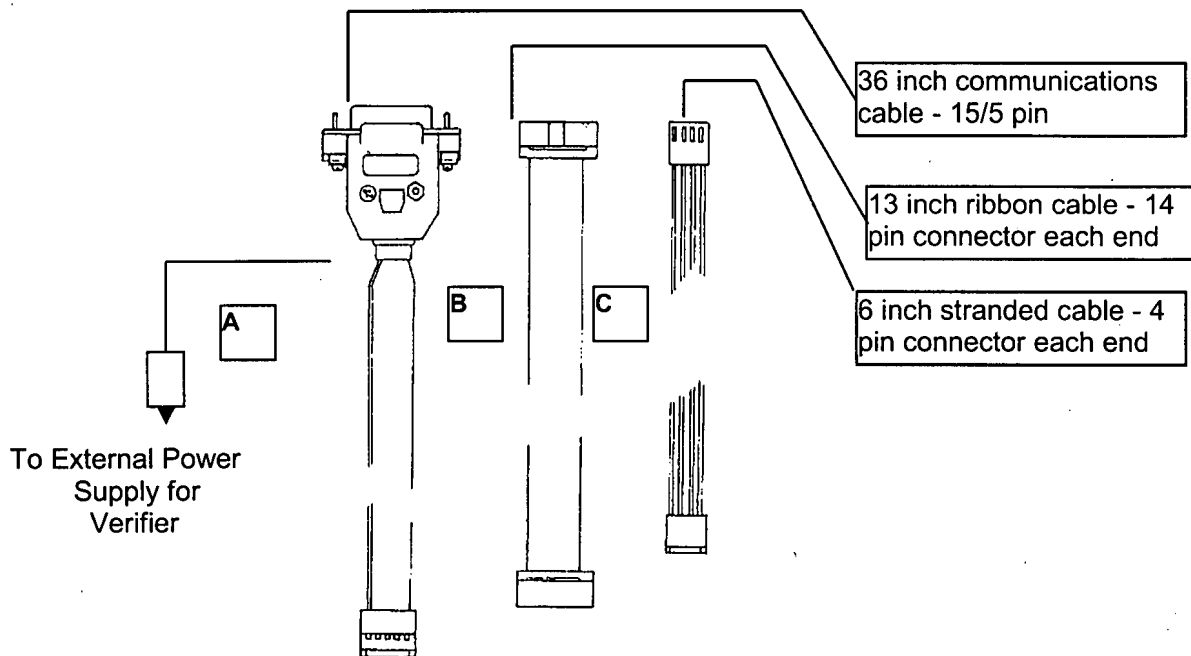
4. Install two brass standoffs into the PCBA at the two locations "A".
5. Install two (2) flat clip cable clamps under the top cover in the approximate locations as shown in figure 1.
6. Mount the bracket / PCBA assembly onto the printer in the orientation shown on the next page in figure 2.



**Fig. 2**

7. With the bracket assembly held in place, secure locations "A" (two) with the two screws removed in step 3.0 above. Tighten the two screws until snug: *Do not over tighten*. Refer to figure 1 for locations "A".
8. This completes installation of the bracket / PCBA assembly. The following steps describe how to install / connect the cable assemblies.
9. The three cables included with the kit are shown in figure 3 on the next page.

## Cables Included With Kit



**Fig. 3**

10. The next few steps will require a combination of relocating cable connections from the main PCBA in the printer to the PCBA on the kit bracket shown in figure 2, and installing the new cables supplied with the kit. Refer to figures 4 & 5 for location of the various cable connections.
11. Remove the cable connected to the main PCBA in the printer at location J1 (J6 on 105SE, 160S ); attach it to the kit interface PCBA at location J5. See figure 4 for location of connectors.
12. Connect cable "B" (figure 3) to location J6 on the PCBA and J1 (J6 on 105SE, 160S) on the printer PCBA. Route cable through flat clip cable clamp # 2 as shown in figure 1.
13. Remove the cable from location J11 (J9 for 105SE, 160S) on the printer PCBA and attach it to location J1 on the PCBA. See figure 4.
14. Connect the cable "C" at location J2 on the interface PCBA and location J11 (J9 for 105SE, 160S) on the printer PCBA. See figures 4 & 5.
15. Attach the 5 pin connector of cable "A" at location J3 on the PCBA. The other end will be attached to the external verifier. See figure 5. Route the cable through the flat clip cable clamp #1 as shown in figure 1.

### Printer PCBA Cable Locations

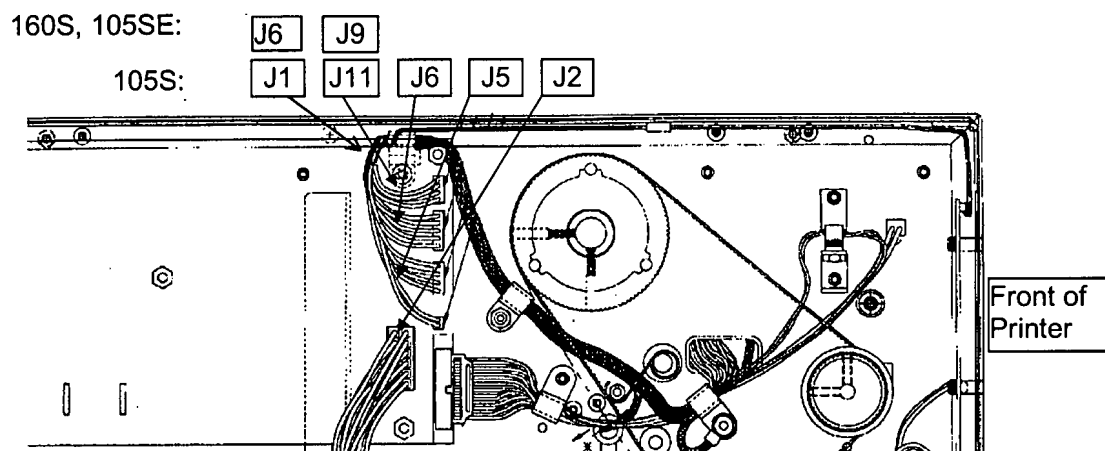


Fig. 4

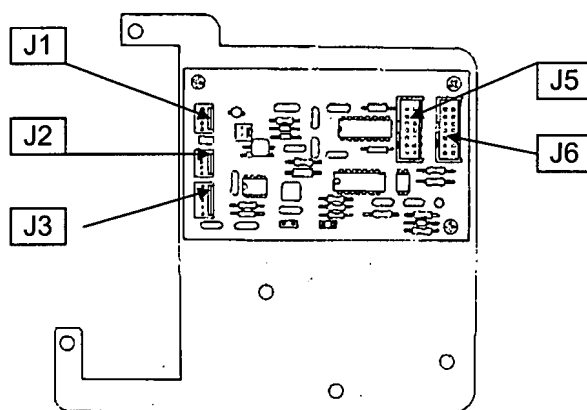


Fig. 5

16. Refer to Figure 6 for proper routing of cable "A" in step 14.0 above.

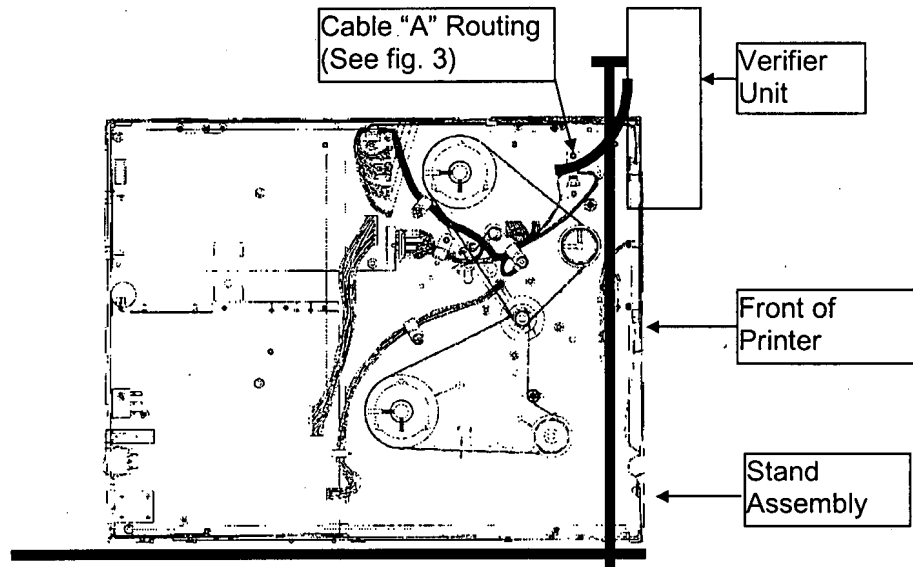


Fig. 6

17. Refer to figure 6 for general routing of the external verifier cable. Extend the cable from the PCBA connector to the front of the printer, bend it around the edge of the printer cabinet (going toward the center of the printer) and secure it with the C-type flat clamp mounted to the front of the printer approximately three inches from the left edge (see figure 1). Then route the cable from the C-clamp to the external verifier unit.
18. All excess cable length, to the external verifier unit, should be on the outside of the cabinet and secured to the side of the verifier unit with velcro strap. Be sure to route the cable so it does not interfere with the verifier or paper path. Refer to figure 6 for approximate location of the velcro strap.
19. Before reinstalling the left side cover onto the printer, be sure to double check the cables to ensure they do not make contact with any gears or pulleys. They should be secured with the flat clip clamps as shown in figure 1.
20. Reinstall the cabinet left side cover. *Make sure the cable to the external verifier unit is not pinched when the side cover is reinstalled.*

**This completes the installation of the kit.**

Verifier Setup:

1. Install the SV mounting stand. (If it is an HHP "Sky Hook" it will be mounted on the left side panel.)
2. Mount the SV unit on the stand at the approximate distance shown on the label mounted on the side of the unit. This is preliminary for power up. Accurate adjustment will be performed a few steps later in this procedure.
3. Connect the verifier interface cable (cable "A") to the SV I/O connector.
4. Connect a communication cable between the SV Comm connector and a PC running ScanView setup software.
5. Connect the included power supply to the verifier interface cable and plug in the power supply to turn on the SV unit.
6. The laser beam is now visible. For best results the beam must be placed in a location where the bar codes are stable when moving through the beam.

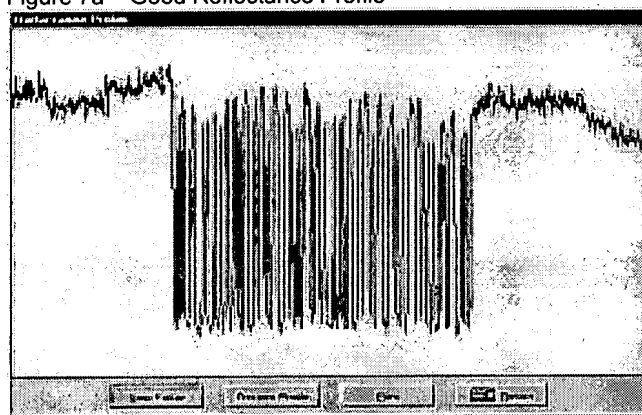
For "picket fence" (horizontal) oriented bar codes, the recommended beam location is on the printer platen. Place the beam so it is lined up with and in the middle of the platen when looking down on it from the rear of the SV unit. The platen is located behind the rear of the tear bar and is white in color. Make the beam angle as vertical as possible by placing the beam so it just misses the printer top cover before it hits the platen.

If an object is in the way of the beam being placed on the platen, the next best location is on the tear bar.

7. Place a sample bar code in the center of the intended laser beam path. For best results, this sample should match the type of bar code(s) and material that is to be analyzed in the final application. Knowing the X dimension (narrow element width of the bar code(s)) is required for best focus and accurate analyses. *Note: SV Calibration symbols have a 10 mil X dimension unless otherwise indicated.*
8. Take a Scan Profile with ScanView.
9. Ensure the bar code(s) is in the center of the scan path.
10. Ensure the scan profile contains no distortion from light reflecting from objects in or near the light path. **Examples of a good and bad reflectance profile are shown in Figures 7a and 7b respectively at the end of this section. The included light shield may have to be attached to the front of the printer to provide an acceptable scan reflectance profile if the beam is not placed in the recommended location on the platen. See the attached light shield installation instructions.** One major aspect in a good profile is the low reflectance points (the bars) in the symbol are uniform all the way across the code. Optimum signal amplitude should be adjusted so the bar code element reflectances are between the 90% and 10% marks shown in yellow on the screen. Scanner angle has the most effect on the signal amplitude.
11. Continue adjusting the SV unit's placement until a good scan profile is obtained. The scan angle may have to be altered slightly or a light shield may have to be installed in extreme cases to achieve a good reflectance profile. If adjustment of scan angle does not produce the correct signal amplitude or placement, adjust scanner gain and offset per the Adjusting Scanner Gain and Offset Section in the SV Operator's Guide.
12. **Place ScanView in Session Mode.**
13. **Click on the Report an Analysis Speedbutton.**
14. Ensure that X in the lower panel of the Bar Code Analysis Screen matches the X dimension of the symbol within +/- .1 mil.
15. Adjust distance of the SV unit from the bar code until the X dimension matches the desired value. (If X is analyzed as too large, move the scanner farther away; if X is too small, move the scanner closer.)

16. Repeat steps 11 through 15 until no further mounting adjustments are required.
17. Remove the symbol from the laser beam path.
18. Set the proper SV output mode for this kit – Mode 1 (Command ~LV01). See the Mode 1 description below. *Other modes are also compatible with this kit - contact HHP Technical Support for Details.*
19. Set the proper SV initialization (Command ~PR0210).
20. Set the verifier sync mode to edge (Command ~LX1), polarity falling edge (Command ~LP0).
21. Set the verifier for the appropriate number of codes per sync interval for the application via the ~LN Command.
22. Program the verifier's fail parameters as desired.
23. Connect AC power cord to the printer.
24. The verifier and printer are now ready to operate.

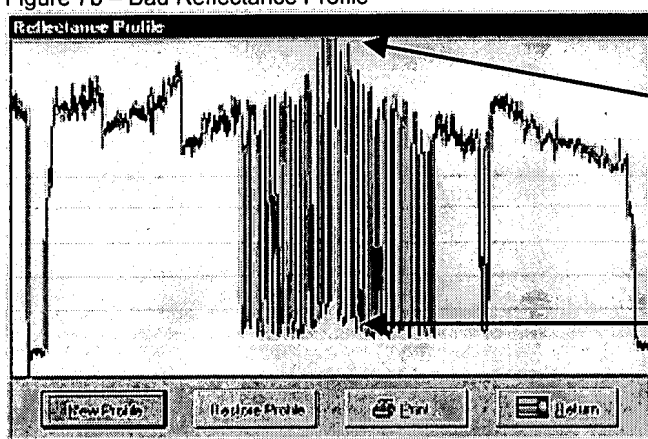
Figure 7a – Good Reflectance Profile



**Example of a “good” scan reflectance profile:**

- a. Consistent amplitude.
- b. Amplitude within yellow lines.
- c. Amplitude at least 6 lines high.

Figure 7b – Bad Reflectance Profile



Bar code signal amplitude out of range: above yellow line and also off the graph.

Bar code low reflectance points not in straight, consistent values.

### Mode 1 Specification

#### A. I/O operation

1. System will operate in Edge Sync or Envelope sync mode (~LX#)
2. Sync polarity programmable (~LP#)
3. Port 1 will go active OFF (no current) on an error condition.
4. Port 2 will go active ON (sink current) on an error condition.



5. Pushing the reset button or power re-cycle will place Ports 1 and 2 in their inactive states and reset the # codes per sync counter.
6. Error conditions available are:
  - a. Partial Read (Programmable, ~LQ#, ~Lp#)
  - b. % decode (Programmable, ~LD##)
  - c. Bad Quiet Zone (~PB816xxxxxx)
  - d. ANSI Defects grade less than B (Programmable, ~PB806xxxxxx)
  - e. ANSI Decodability grade less than C (Programmable, ~PB802xxxxxx)
  - f. Symbol Contrast grade less than D (Programmable, ~PB804xxxxxx)
  - g. No Read (if sync is received)
  - h. Number of codes per sync programmable (~LN##)

#### B. LED Operation

1. LED1 will turn on if Outputs 1 and 2 go active due to ANSI, contrast, or quiet zone failure
2. LED2 will turn on if Outputs 1 and 2 go active due to a partial or no read condition

**Note: Both LEDs can be on in cases where multiple bar codes are analyzed in a sync period.**

#### C. Calibration Procedure

**Two procedures are available to calibrate the unit.**

##### Procedure 1:

- a) Remove all bar codes from the laser beam path.
- b) Place the supplied calibration symbol in the laser beam in the same position (distance and angle) as the labels to be verified will be scanned.
- c) Press and hold the RESET button on the SV100 until the Calibration LED begins to flash.
- d) Release the RESET button immediately after the Calibration LED begins flashing.
- e) If calibration is successful, the laser beam will go off and the Calibration LED will go off. **Remove the calibration symbol from the beam path**, then Press and release the RESET button to turn the beam on. The SV100 is now ready to operate.
- f) If calibration is unsuccessful, the Calibration LED will be either on steadily or flashing. In this case, repeat the calibration procedure.

##### Procedure 2:

- a) Place the supplied calibration symbol in the laser beam in the same position (distance and angle) as the labels to be verified will be scanned.
- b) Send "~SC" into the SV100 serial port. This will cause the Calibration LED to flash.
- c) If calibration is successful, the laser beam will go off and the Calibration LED will go off. **Remove the calibration symbol from the beam path**, then Press and release the RESET button to turn the beam on. The SV100 is now ready to operate.
- d) If calibration is unsuccessful, the Calibration LED will be either on steadily or flashing. In this case, repeat the calibration procedure.

#### D. SV Commands Important to this System

This system is operating in a “mode” rather than fully programmable logic. The port activation parameters are programmable via the **~PB8** rather than **~PB1**, **~PB2**, etc. for each individual port. Other commands, such as mode commands are also available. The commands most useful for this system application are described below. Please see the SV100 Operator's Guide for additional command description details.

**~LV01**

This command sets this mode of operation.

**~Lp0**

This command turns off all partial decode logic at the decoder level

**~Lp1**

This command turns on partial decode logic at the decoder level

**~LQ1**

This command allows partial decodes to activate the output ports

**~LQ0**

This command disables partial decodes to activate output ports.

NOTE: In SV firmware versions x238 and lower, ~LQ commands are not implemented and the command ~HQ1 must be used to disable partial decodes from activating ports. In this case the standard data transmission format is modified and ScanView will not display data characters correctly.

**~LDxx**

This command sets the % decode threshold for a passing condition. Partial decodes must be enabled at the decoder level and port level for this command to be used to activate ports. xx = failure threshold. Example ~LD75: if 74 % or less of scans on a code were not fully decoded, this sets a failure for this parameter.

**~PB816xxx100**

This command sets the minimum percent of scans on a code which calculate good quiet zones to determine an acceptable quiet zone analysis. The field xxx is the minimum passing threshold. Example: if xxx = 030, a minimum of 30% of all fully decoded scans on a code must calculate a good quiet zone, or a failure condition is set for this parameter.

**~PB806xxx000**

This command sets the threshold for the ANSI Defects calculation on a code to set a failure condition. The field xxx is the passing threshold for the calculation. For example: if xxx = 025, a Defects analysis of 26% or higher will cause a failure condition for this parameter.

**~PB802xxx100**

This command sets the threshold for the ANSI Decodability calculation on a code to set a failure condition. The field xxx is the passing threshold for the calculation. For example: if xxx = 037, a Decodability analysis of 36% or lower will cause a failure condition for this parameter.

**~PB804xxx100**

This command sets the threshold for the ANSI Symbol Contrast calculation on a code to set a failure condition. The field xxx is the passing threshold for the calculation. For example: if xxx = 020, a Symbol Contrast analysis of 19% or lower will cause a failure condition for this parameter.

**~LN##**

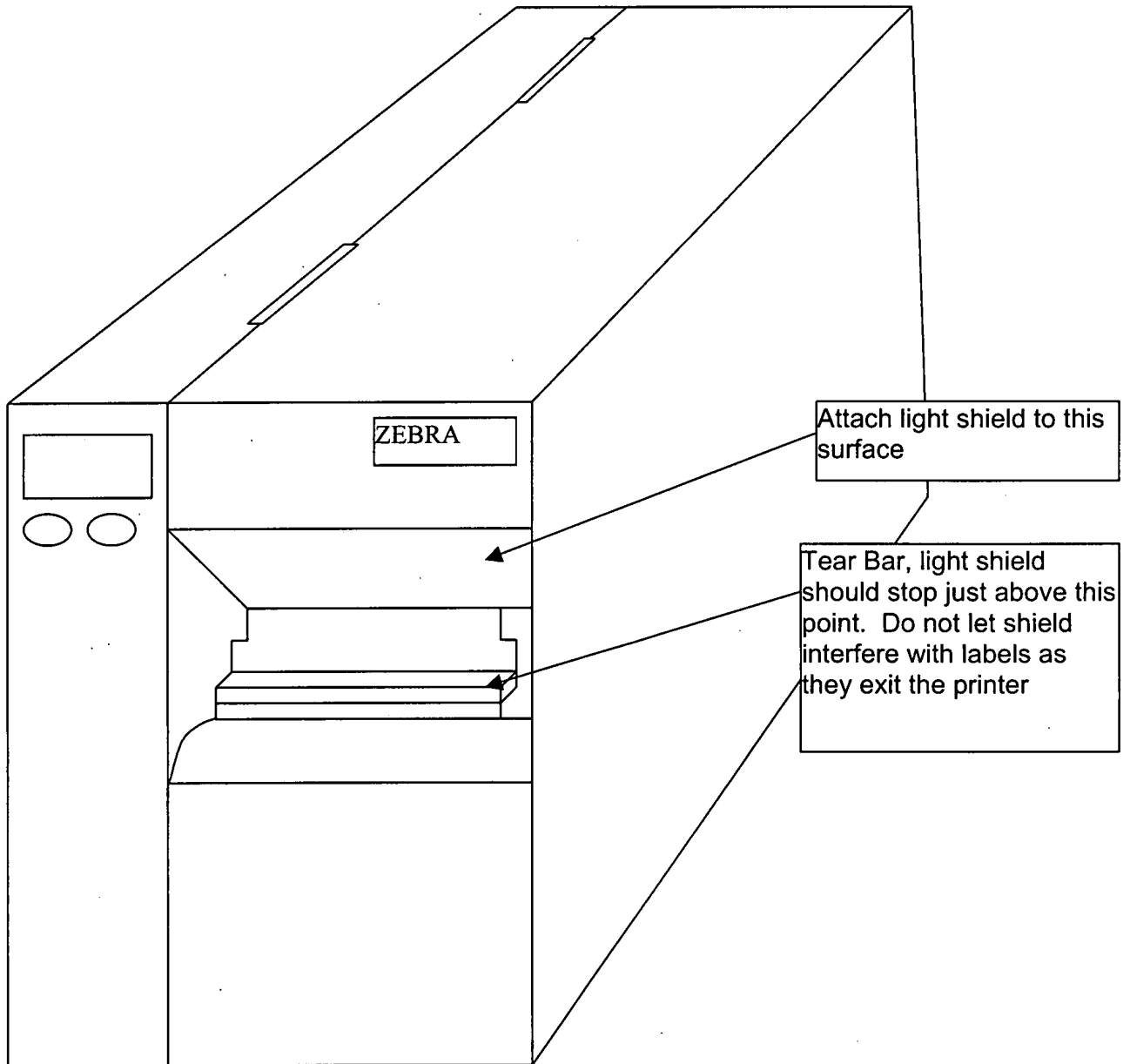
This command sets the minimum number of codes to be read during a sync period. ## = the number of codes. For example: ~LN02 causes a No Read condition to be set if less than 2 bar codes are fully decoded during a sync interval.

**~Hx**

This command stores all parameters into non-volatile memory. This command should be the last command sent after parameters are programmed via the above commands.

### SV LIGHT SHIELD FOR ZEBRA PRINTERS

1. Follow the SV installation instructions supplied with the interface cable or kit.
2. Install this shield only in cases where an acceptable Scan Reflectance Profile cannot be achieved without it.



File 344:Chinese Patents Abs Aug 1985-2003/Nov  
(c) 2003 European Patent Office  
File 347:JAPIO Oct 1976-2003/Aug(Updated.031202)  
(c) 2003 JPO & JAPIO  
File 348:EUROPEAN PATENTS 1978-2003/Nov W05  
(c) 2003 European Patent Office  
File 349:PCT FULLTEXT 1979-2002/UB=20031203,UT=20031127  
(c) 2003 WIPO/Univentio  
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200379  
(c) 2003 Thomson Derwent  
? ds

Set	Items	Description
S1	51	AU=(YUEN, S? OR YUEN S?)
S2	2	S1 AND TOUCHPAD

2/5,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

01632898

RUGGEDIZED&comma; WATER SEALED&comma; SECURITY-ENHANCED TOUCHPAD

ASSEMBLY

ENSEMBLE BLOC A EFFLEUREMENT ROBUSTE, ETANCHE A L'EAU ET A SECURITE  
AMELIOREE

PATENT ASSIGNEE:

Pos.Com, Inc., (2911691), 3051 North First Street, San Jose, CA 95134,  
(US), (Applicant designated States: all)

INVENTOR:

YUEN, Siltex, Peter , 2765 Henessy Drive, San Jose, CA 95148, (US  
PATENT (CC, No, Kind, Date):

WO 2003060680 030724

APPLICATION (CC, No, Date): EP 2003705715 030110; WO 2003US698 030110

PRIORITY (CC, No, Date): US 44095 020111

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS: G06F-003/00

CITED PATENTS (WO A): JP 2001209510 A ; JP 11154069 A ; JP 2000231465 A ;  
JP 11203092 A ; JP 2000347827 A ; JP 6183101 A ; JP 2000305723 A ; EP  
605091 A2; EP 889391 A ; JP 2002196897 A

CITED REFERENCES (WO A):

US 6211856 B1

US 6073036 A

PATENT ABSTRACTS OF JAPAN vol. 1997, no. 8 29 August 1997 & JP 09 091 486  
A (TOSHIBA CORP) 04 April 1997;

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030917 A2 International application. (Art. 158(1))

Application: 030917 A2 International application entering European  
phase

LANGUAGE (Publication,Procedural,Application): English; English; English

RUGGEDIZED&comma; WATER SEALED&comma; SECURITY-ENHANCED TOUCHPAD

ASSEMBLY

INVENTOR:

YUEN, Siltex, Peter ...

2/5,K/2 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

01030644 \*\*Image available\*\*

RUGGEDIZED, WATER SEALED, SECURITY-ENHANCED TOUCHPAD ASSEMBLY

ENSEMBLE BLOC A EFFLEUREMENT ROBUSTE, ETANCHE A L'EAU ET A SECURITE  
AMELIOREE

Patent Applicant/Assignee:

@POS COM INC, 3051 North First Street, San Jose, CA 95134, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

YUEN Siltex Peter , 2765 Henessy Drive, San Jose, CA 95148, US, US

(Residence), US (Nationality), (Designated only for: US

Legal Representative:

KAUFMAN Michael A (et al) (agent), Dorsey & Whitney Llp, 4 Embarcadero  
Center, Suite 3400, San Francisco, CA 94111, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200360680 A2 20030724 (WO 0360680)  
Application: WO 2003US698 20030110 (PCT/WO US0300698)  
Priority Application: US 200244095 20020111  
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO  
RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Main International Patent Class: G06F-003/00  
Publication Language: English  
Filing Language: English  
Fulltext Availability:  
Detailed Description  
Claims  
Fulltext Word Count: 4025

#### English Abstract

A **touchpad** assembly is ruggedizing and sealed against moisture. The assembly includes a **touchpad** that receives a user-generated data signal that is cable-coupled to a printed circuit board assembly (PCBA), which components are disposed upon a support lens. A shield over-covers the **touchpad** assembly but has an through-opening providing user-access to the **touchpad**. An anti-theft mechanism secures the shield to the PCBA, and a security chamber space is sealingly defined between the shield, PCBA, and the support lens. The security chamber space is secured with injected resin, into which the anti-theft latch is thereby molded. A cable opening in the support lens is water sealed using double-sided adhesive tape or the like.

#### French Abstract

Cet ensemble bloc a effleurement est robuste et etanche a l'humidite. Il est pourvu d'un dispositif tactile recevant un signal de donnees produit par un utilisateur couple par cable a une plaquette de circuits imprimes (PCBA), ces composants etant places sur un verre de support. Un bouclier recouvre l'ensemble bloc a effleurement, mais est pourvu d'un orifice donnant acces audit bloc. Un systeme antivol assujettit le bouclier a la PCBA et un espace de securite est menage hermetiquement entre le bouclier, le PCBA et le verre de support. Cet espace de securite est securise par injection de resine dans laquelle est ensuite moule le verrouillage antivol. L'ouverture pour le cable menagee dans le verre de support est rendu etanche a l'eau au moyen d'un ruban adhesif double face ou analogue.

#### Legal Status (Type, Date, Text)

Publication 20030724 A2 Without international search report and to be republished upon receipt of that report.

**RUGGEDIZED, WATER SEALED, SECURITY-ENHANCED TOUCHPAD ASSEMBLY**

Patent Applicant/Inventor:

**YUEN Siltex Peter ...**

Fulltext Availability:

Detailed Description

Claims

#### English Abstract

A **touchpad** assembly is ruggedizing and sealed against moisture. The assembly includes a **touchpad** that receives a user-generated data signal that is cable-coupled to a printed circuit...